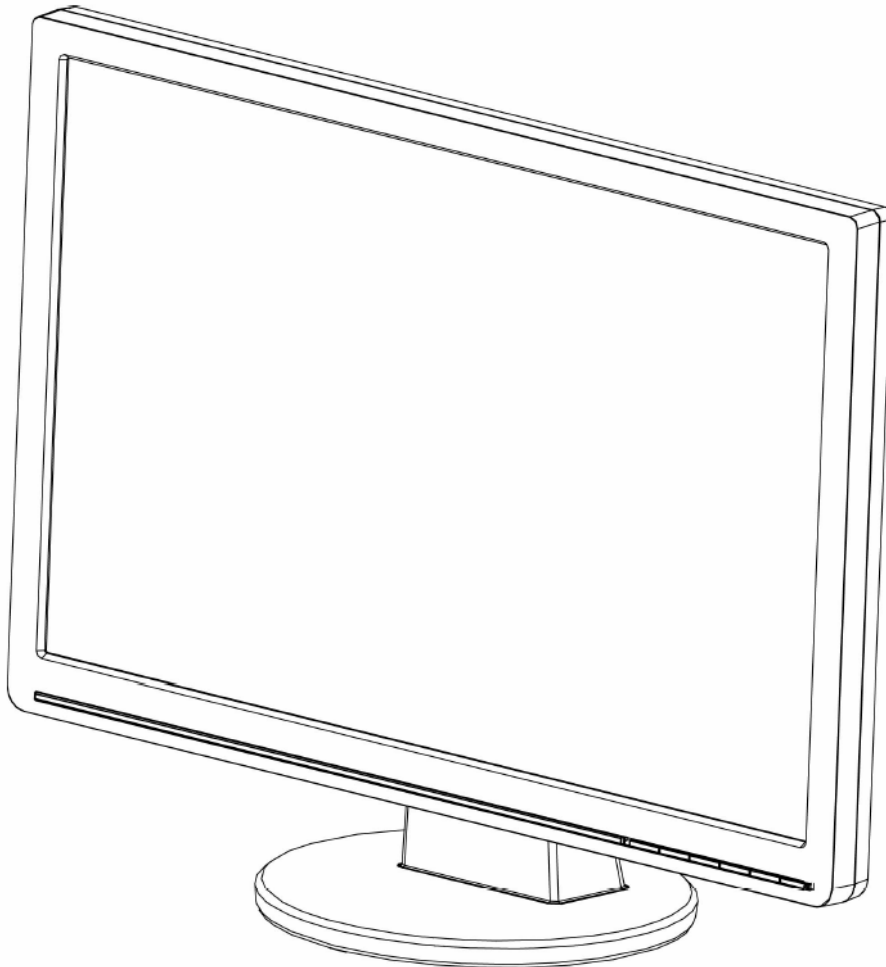


LCD Monitor Service Manual



Model: ASUS VW224U&VW224S

SPECIFICATIONS AND INFORMATION CONTAINED IN THIS MANUAL ARE FURNISHED FOR INFORMATIONAL USE ONLY, AND ARE SUBJECT TO CHANGE AT ANY TIME WITHOUT NOTICE, AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY ASUS. ASUS ASSUMES NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS OR INACCURACIES THAT MAY APPEAR IN THIS MANUAL,

Index

Revision Lists.....	3
Important Safety Notice.....	4
1. Monitor Specification.....	5
2. Operation Instruction.....	6
2.1. General Instructions.....	6
2.2. Control Button.....	6
2.3. OSD Menu.....	9
3. Input/Output Specification.....	12
3.1. Input Signal Connector.....	12
3.2. Power Supply Requirements.....	12
3.3. Factory Preset Display Modes.....	14
4. Block Diagram.....	15
5. Schematic Diagram.....	20
5.1. Main Board.....	20
5.2. Power Board.....	28
5.3. Audio Board.....	30
5.4. Key Board.....	31
6. PCB Layout.....	32
6.1. Main Board.....	32
6.2. Power Board.....	35
6.3. Audio Board.....	38
6.4. Key Board.....	38
7. Disassemble & Assemble SOP.....	39
8. ISP Instruction.....	59
9. DDC Instruction.....	62
10. Color/White Balance Adjustment.....	71
11. Trouble Shooting.....	73
12. Exploded View.....	79
13. BOM List.....	80
14. Different Parts List.....	109

Revision List

[illegible]

Important Safety Notice

Safety information

- Before setting up the monitor, carefully read all the documentation that came with the package.
- To prevent fire or shock hazard, never expose the monitor to rain or moisture.
- Never try to open the monitor cabinet. The dangerous high voltages inside the monitor may result in serious physical injury.
- If the power supply is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer.
- Before using the product, make sure all cables are correctly connected and the power cables are not damaged. If you detect any damage, contact your dealer immediately.
- Slots and openings on the back or top of the cabinet are provided for ventilation. Do not block these slots. Never place this product near or over a radiator or heat source unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
- Use the appropriate power plug which complies with your local power standard.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- Avoid dust, humidity, and temperature extremes. Do not place the monitor in any area where it may become wet. Place the monitor on a stable surface.
- Unplug the unit during a lightning storm or if it will not be used for a long period of time. This will protect the monitor from damage due to power surges.
- Never push objects or spill liquid of any kind into the slots on the monitor cabinet.
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100-240V AC.
- If you encounter technical problems with the monitor, contact a qualified service technician or your retailer.

WARNING

- Before you lift or reposition your monitor, it is better to disconnect the cables and power cord. Follow the correct lifting techniques when positioning the monitor. When lifting or carrying the monitor, grasp the edges of the monitor. Do not lift the display by the stand or the cord.
- Cleaning. Turn your monitor off and unplug the power cord. Clean the monitor surface with a lint-free, non-abrasive cloth. Stubborn stains may be removed with a cloth dampened with mild cleaner.
- Avoid using a cleaner containing alcohol or acetone. Use a cleaner intended for use with the LCD. Never spray cleaner directly on the screen, as it may drip inside the monitor and cause an electric shock.



WARNING: Information to prevent injury to yourself when trying to complete a task.



CAUTION: Information to prevent damage to the components when trying to complete a task.



IMPORTANT: Information that you MUST follow to complete a task.



NOTE: TIPS AND ADDITIONAL INFORMATION TO AID IN COMPLETING A TASK

1. Monitor Specifications

Model	VW224U
Panel Size	22" Wide
Max. Resolution	WSXGA+ 1680 x 1050
Brightness (Typ.)	300cd/m ²
Contrast Ratio (Typ.)	1000:1
Viewing Angle (H/V, CR=10)	≧ 160°(V) ; ≧ 170°(H)
Display Colors	16.7 M
Response Time	2ms (Gray to Gray)
DVI input	DVI with HDCP
D-Sub input	Yes
Satellite Speaker	1W x 2 stereo
Tilt	+20° ~ -5°
VESA Wall Mounting	Yes (100mm x 100mm)
Phys. Dimension (WxHxD)	513x412x210
Box Dimension (WxHxD)	590x454x162
Net Weight (Esti.)	5.1kg
Gross Weight (Esti.)	7.1kg
Voltage Rating	AC: 100~240V (Built-in)

Model	VW224S
Panel Size	22" Wide
Max. Resolution	WSXGA+ 1680 x 1050
Brightness (Typ.)	300cd/m ²
Contrast Ratio (Typ.)	1000:1
Viewing Angle (H/V, CR=10)	≧ 160°(V) ; ≧ 170°(H)
Display Colors	16.7 M
Response Time	5ms (On/Off)
DVI input	-
D-Sub input	Yes
Satellite Speaker	1W x 2 stereo
Tilt	+20° ~ -5°
VESA Wall Mounting	Yes (100mm x 100mm)
Phys. Dimension (WxHxD)	513x412x210
Box Dimension (WxHxD)	590x454x162
Net Weight (Esti.)	4.7kg
Gross Weight (Esti.)	6.7kg
Voltage Rating	AC: 100~240V (Built-in)

2. Operation Instruction

2.1 General Instructions

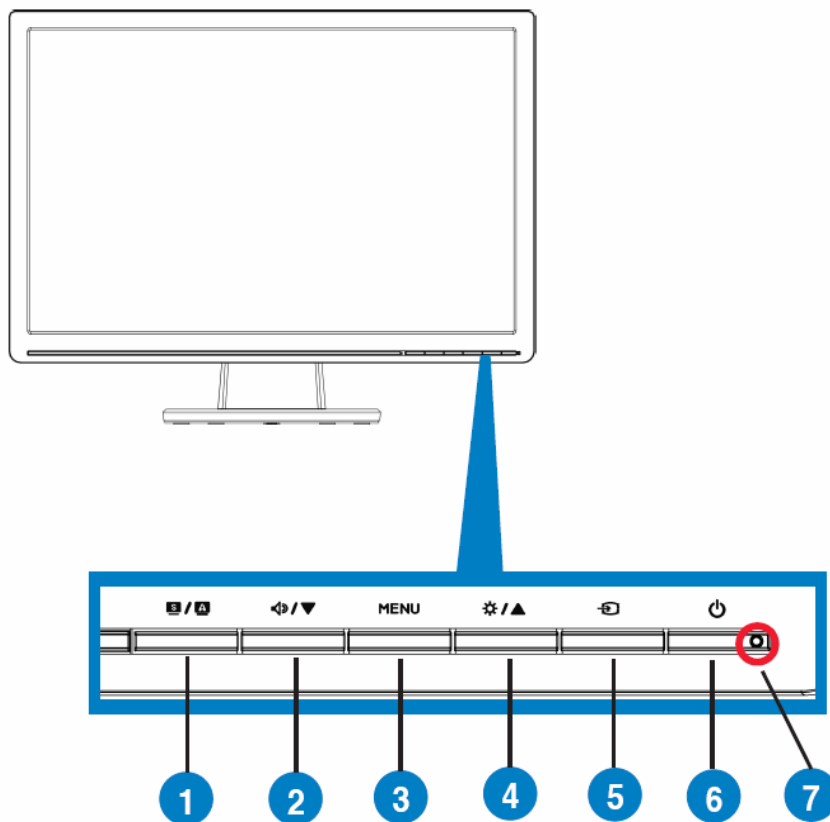
Press the power button to turn the monitor on or off. The other control buttons are located at the front of the panel of the monitor.

By changing these settings, the picture can be adjusted to your personal preferences.

- The power cord should be connected.
- Connect the video cable from the monitor to the video card.
- Press the power button to turn on the monitor, the power indicator will light up.

2.2 Control Button

VW224U



1. **S / A** button:

- Automatically adjust the image to its optimized position, clock, and phase by long pressing this button for -4 seconds (for VGA mode only).
- Use this hotkey to switch from five video preset modes (Game Mode, Night View Mode, Scenery Mode, Standard Mode, Theater Mode) with SPLENDID™ Video Enhancement Technology.
- Exit the OSD menu or go back to the previous menu as the OSD menu is active.

2. **Speaker / Down Arrow** Button:

- Press this button to increase the value of the function selected or move to the previous function.
- This is also a hotkey for Brightness adjustment.

3. **MENU** Button:

- Press this button to enter/select the icon (function) highlighted while the OSD menu is activated.

4. Button:

- Press this button to increase the value of the function selected or move to the previous function.
- This is also a hotkey for Brightness adjustment.

5. Input Select Button

Use this hotkey to switch from VGA,DVI input signal.

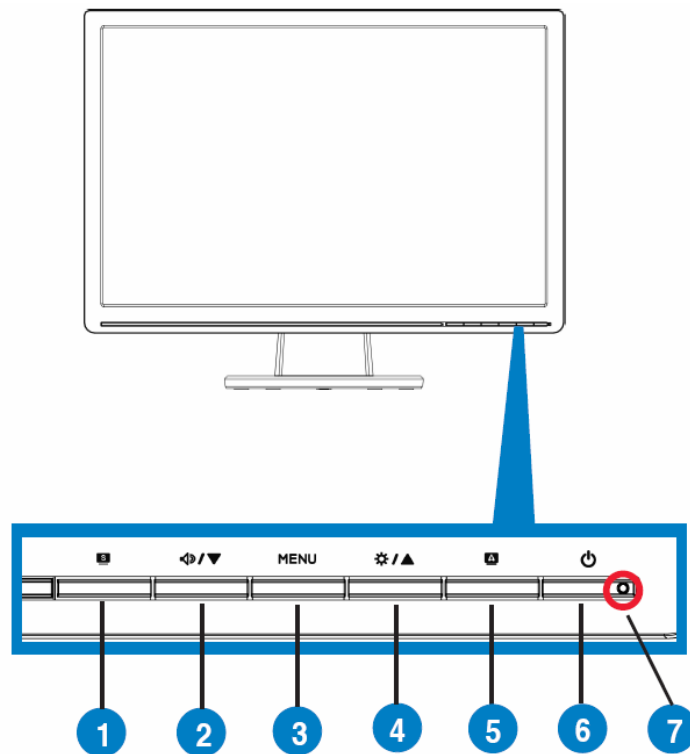
6. Power button

- Press this button to turn the monitor on/off.

7. Power indicator

- The color definition of the power indicator is as the below table.

VW224S



1. button:

- Use this hotkey to switch from five video preset modes (Game Mode, Night View Mode, Scenery Mode, Standard Mode, Theater Mode) with SPLENDID™ Video Enhancement Technology.
- Exit the OSD menu or go back to the previous menu as the OSD menu is active.

2. Button:

- Press this button to decrease the value of the function selected or move to the next function.
- This is also a hotkey for Volume adjustment.

3. MENU Button:

- Press this button to enter/select the icon (function) highlighted while the OSD menu is activated.

4. / Button:

- Press this button to increase the value of the function selected or move to the previous function.
- This is also a hotkey for Brightness adjustment.

5. button:

- Automatically adjust the image to its optimized position, clock, and phase by long pressing this button (for VGA mode only).

6. Power button:

Press this button to turn the monitor on/off.

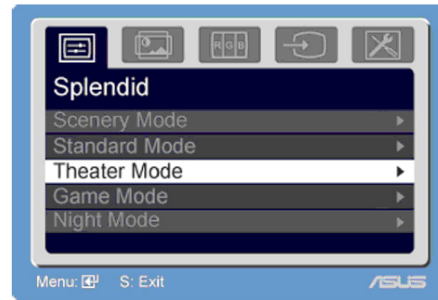
7. Power indicator:

- The color definition of the power indicator is as the below table.

2.3 OSD Menu

How to reconfigure

1. Press the MENU button to activate the OSD menu.

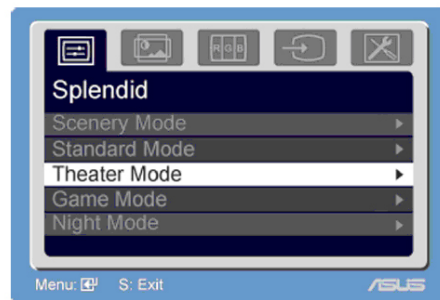


2. Press ▼ and ▲ to navigate through the functions. Highlight and activate the desired function by pressing the MENU button. If the function selected has a sub-menu, press ▼ and ▲ again to navigate through the sub-menu functions. Highlight and activate the desired sub-menu function by pressing the MENU button.
3. Press ▼ and ▲ to change the settings of the selected function.
4. To exit the OSD menu, press the **S** button. Repeat step 2 and step 3 to adjust any other function.

OSD Function Introduction

1. Splendid

This function contains five sub-functions you can select for your preference. Each mode has the Reset selection, allowing you to maintain your setting or return to the preset mode.



- **Scenery Mode:** best choice for scenery photo display with SPLENDID™ Video Enhancement.
- **Standard Mode:** best choice for document editing with SPLENDID™ Video Enhancement.
- **Theater Mode:** best choice for movie with SPLENDID™ Video Enhancement.
- **Game Mode:** best choice for game playing with SPLENDID™ Video Enhancement.
- **Night View Mode:** best choice for dark-scene game or movie with SPLENDID™ Video Enhancement.

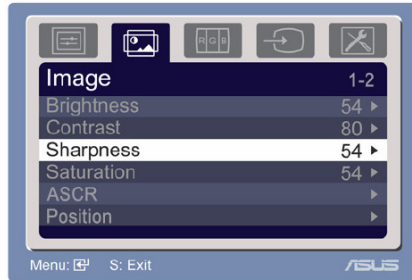


- In the Standard Mode, the **Saturation** and **ASCR** functions are not user-configurable.
- In the other modes, the **sRGB** function is not user-configurable.

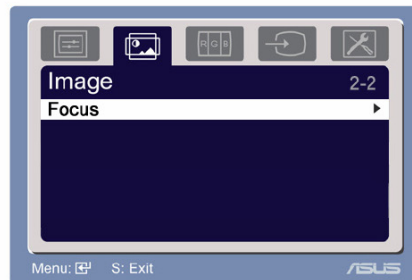
2. Image

You can adjust brightness, contrast, sharpness, saturation, position (VGA only), and focus (VGA only) from this main function.

P1



P2



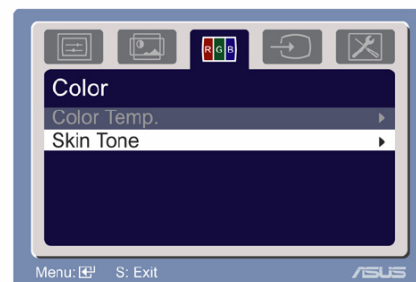
- Brightness: the adjusting range is from 0 to 100. ☀ is a hotkey to activate this function.
- Contrast: the adjusting range is from 0 to 100.
- Sharpness: the adjusting range is from 0 to 100.
- Saturation: the adjusting range is from 0 to 100.
- ASCR: Select YES or NO to enable or disable dynamic contrast ratio function.
- Position: adjusts the horizontal position (H-Position) and the vertical position (V-Position) of the image. The adjusting range is from 0 to 100.
- Focus: reduces Horizontal-line noise and Vertical-line noise of the image by adjusting (Phase) and (Clock) separately. The adjusting range is from 0 to 100.



- Phase adjusts the phase of the pixel clock signal. With a wrong phase adjustment, the screen shows horizontal disturbances.
- Clock (pixel frequency) controls the number of pixels scanned by one horizontal sweep. If the frequency is not correct, the screen shows vertical stripes and the image is not proportional.

3. Color

Select the image color you like from this function.



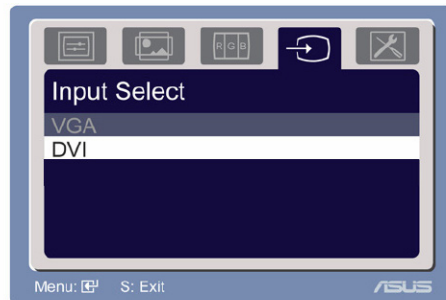
- Color Temp.: contains five color modes including Cool, Normal, Warm, sRGB, and User mode.
- Skin Tone: contains three color modes including Reddish, Natural, and Yellowish.



In the User mode, colors of R (Red), G (Green), and B (Blue) are user-configurable; the adjusting range is from 0-100.

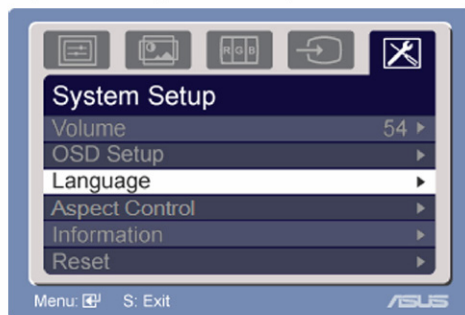
4. Input Select

In this function, you could only select VGA and DVI input source.



5. System Setup

Allow you to adjust the system.



- Volume: the adjusting range is from 0 to 100. is a hotkey to activate this function. (Only for some models)
- OSD Setup: adjusts the horizontal position (H-Position) and the vertical position (V-Position) of the OSD. The adjusting range is from 0 to 100. In the OSD Timeout selection, you can adjust the OSD timeout from 10 to 120.
- Language: there are ten languages for your selection, including English, French, German, Spanish, Italian, Dutch, Russian, Traditional Chinese, Simplified Chinese and Japanese.
- Aspect Controls: adjusts the aspect ratio to "Full" or "4:3".
- Information: shows the monitor information.
- Reset: "Yes" allows you to revert to the preset mode.

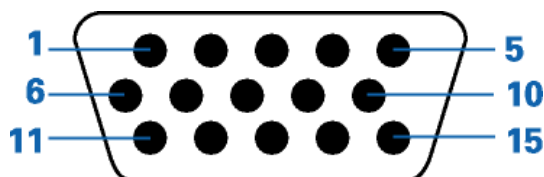
3. Input/Output Specification

3.1 Input Signal Connector

Analog connectors

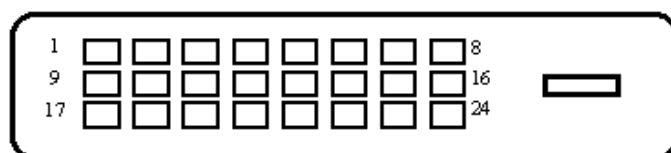
Pin No.	Description	Pin No.	Description
1.	Red Video	9.	+5V Supply
2.	Green Video	10.	Logic Ground
3.	Blue Video	11.	Monitor Ground
4.	Monitor Ground	12.	DDC-Serial Data
5.	DDC-Return	13.	H-Sync
6.	Red Ground	14.	V-Sync
7.	Green Ground	15.	DDC-Serial Clock
8.	Blue Ground		

VGA connector layout



DVI connectors (VW224S not available)

Pin No.	Description	Pin No.	Description	Pin No.	Description
1.	RX2-	9.	R X1-	17.	RX0-
2.	RX2+	10.	RX1+	18.	RX0+
3.	RX2 Shield	11.	RX1 Shield	19.	RX0 Shield
4.	NC	12.	NC	20.	NC
5.	NC	13.	NC	21.	NC
6.	DDC Clock	14.	+5V Power	22.	RX Clock Shield
7.	DDC Data	15.	Ground	23.	RX Clock+
8.	NC	16.	Hot Plug Detection	24.	RX Clock-



3.2 Power Supply Requirements

A/C Line voltage range	100 V ~ 240 V
A/C Line frequency range	50 ± 3Hz, 60 ± 3Hz
Input Voltage transients	90-264 voltage AC for 10 sec @40°C
Current	1.5A max at 100V; 0.8A max at 240 V
Peak surge current	< 60A peak at 240 VAC and cold starting < 30A peak at 120VAC and cold starting
Leakage current	< 3.5mA
Power line surge	No advance effects (no loss of information or defect) with a maximum of 1 half-wave missing per second

3.3 Factory Preset Display Modes

Mode	Resolution	H(KHz)	V(Hz)	Pixel(MHz)
VGA	640x480	31.469	60Hz	25.175
	640x480	37.861	72Hz	31.5
	640x480	37.5	75Hz	31.5
SVGA	800x600	35.156	56Hz	36
	800x600	37.879	60Hz	40
	800x600	48.077	72Hz	50
	800x600	46.875	75Hz	49.5
XGA	1024x768	48.363	60Hz	65
	1024x768	56.476	70Hz	75
	1024x768	60.023	75Hz	78.75
SXGA	1152x864	67.5	75Hz	108
	1280x960	60	60Hz	108
	1280x1024	63.981	60Hz	108
	1280x1024	79.976	75Hz	135
WXGA+	1440x900	55.935	60Hz	106.5
	1440x900	70.635	75Hz	136.75
WSXGA+	1680x1050	65.29	60Hz	146.25

IBM Modes

Mode	Resolution	H(KHz)	V(Hz)	Pixel(MHz)
DOS	640x350	31.469	70Hz	25.175
DOS	720x400	31.469	70Hz	28.322

MAC Modes

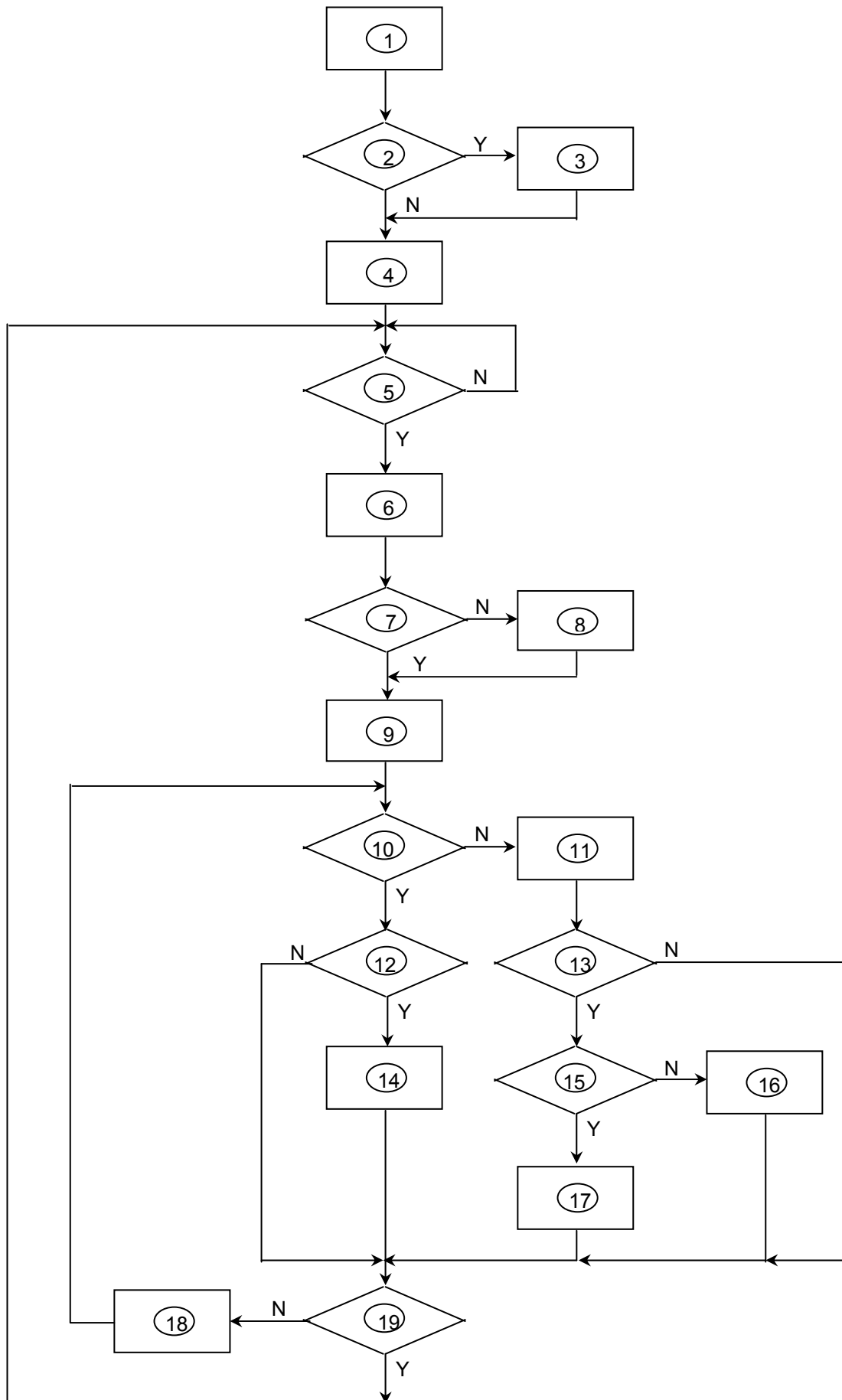
Mode	Resolution	H(KHz)	V(Hz)	Pixel(MHz)
VGA	640x480	35	67Hz	30.24
SVGA	832x624	49.725	75Hz	57.2832

VESA Modes

Mode	Resolution	H(KHz)	V(Hz)	Pixel(MHz)
720P	1280x720	44.772	60Hz	74.5
	1280x720	56.456	75Hz	95.75
WXGA+	1280x768	47.776	60Hz	79.5
	1280x768	60.289	75Hz	102.25
	1280x800	49.702	60Hz	83.5
	1280x800	62.795	75Hz	106.5
1080P	1920x1080	66.587	60Hz	138.5
WUXGA	1920x1200	74.038	60Hz	154

4. Block Diagram

4.1 Software Flow Chat

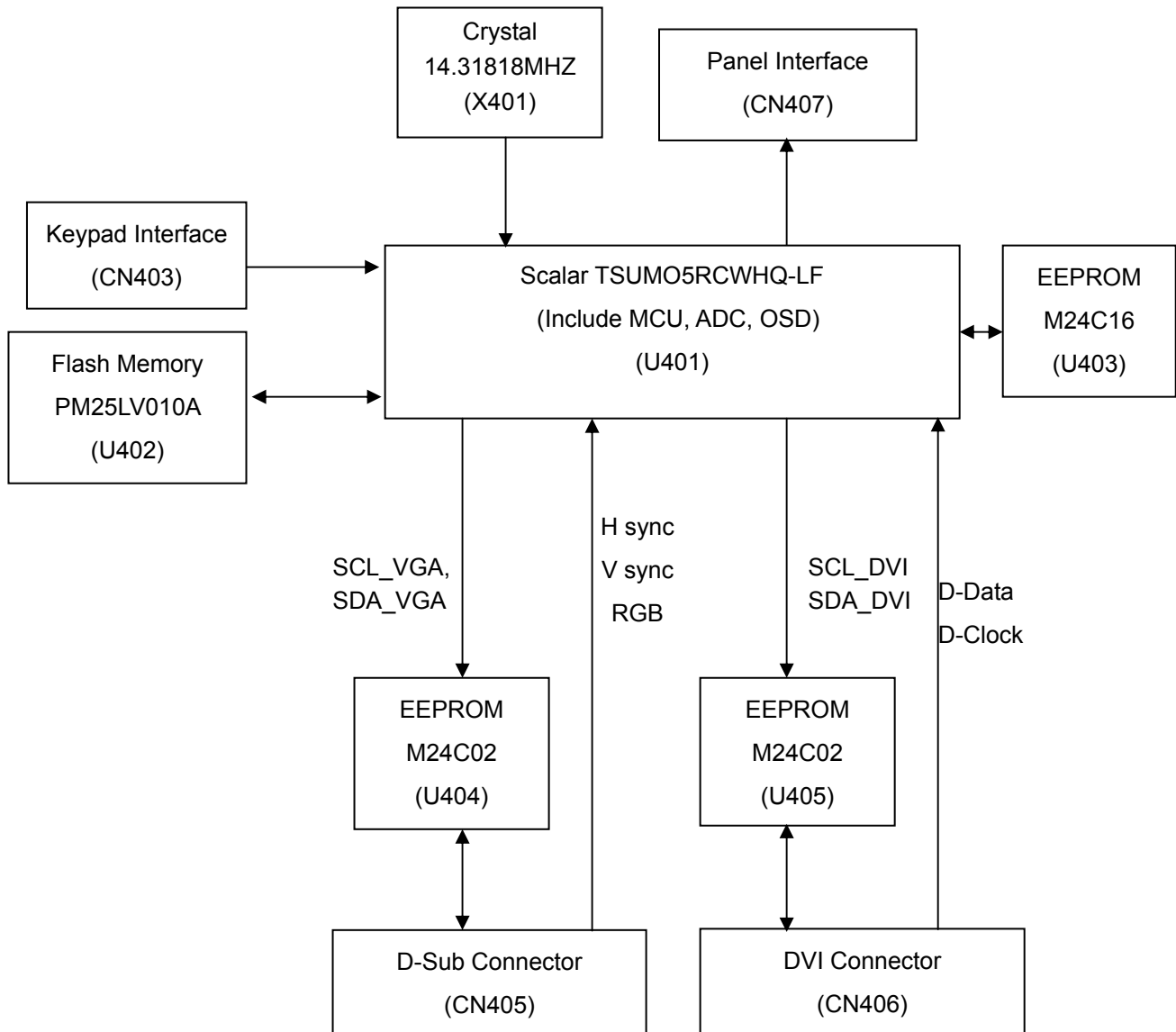


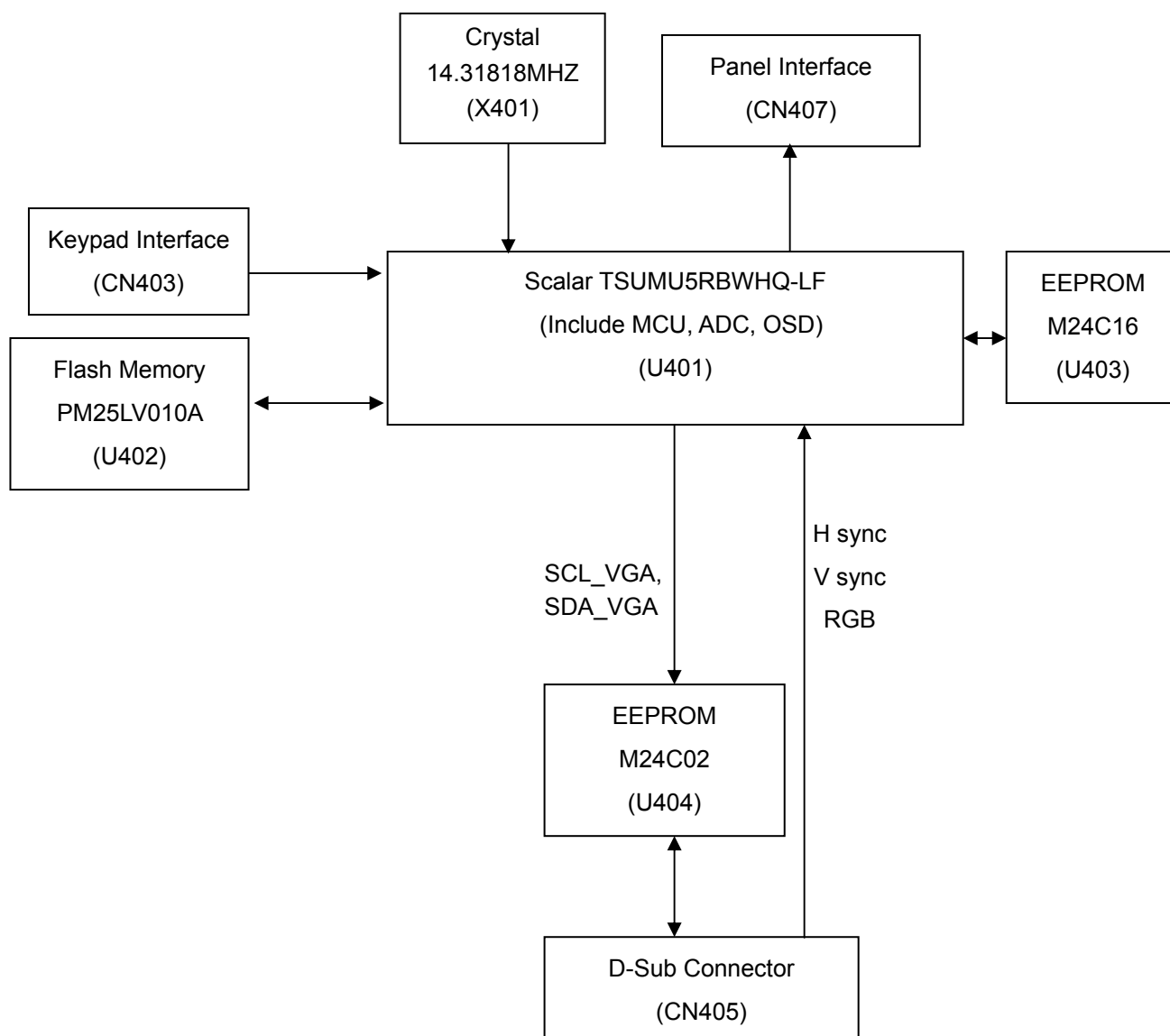
1) MCU initializes.
2) Is the EPROM blank?
3) Program the EPROM by default values.
4) Get the PWM value of brightness from EPROM.
5) Is the power key pressed?
6) Clear all global flags.
7) Are the AUTO and SELECT keys pressed?
8) Enter factory mode.
9) Save the power key status into EPROM. Turn on the LED and set it to green color. Scalar initializes.
10) In standby mode?
11) Update the lifetime of back light.
12) Check the analog port, are there any signals coming?
13) Does the scalar send out an interrupt request?
14) Wake up the scalar.
15) Are there any signals coming from analog port?
16) Display "No connection Check Signal Cable" message. And go into standby mode after the message disappears.
17) Program the scalar to be able to show the coming mode.
18) Process the OSD display.
19) Read the keyboard. Is the power key pressed?

4.2 Electrical Block Diagram

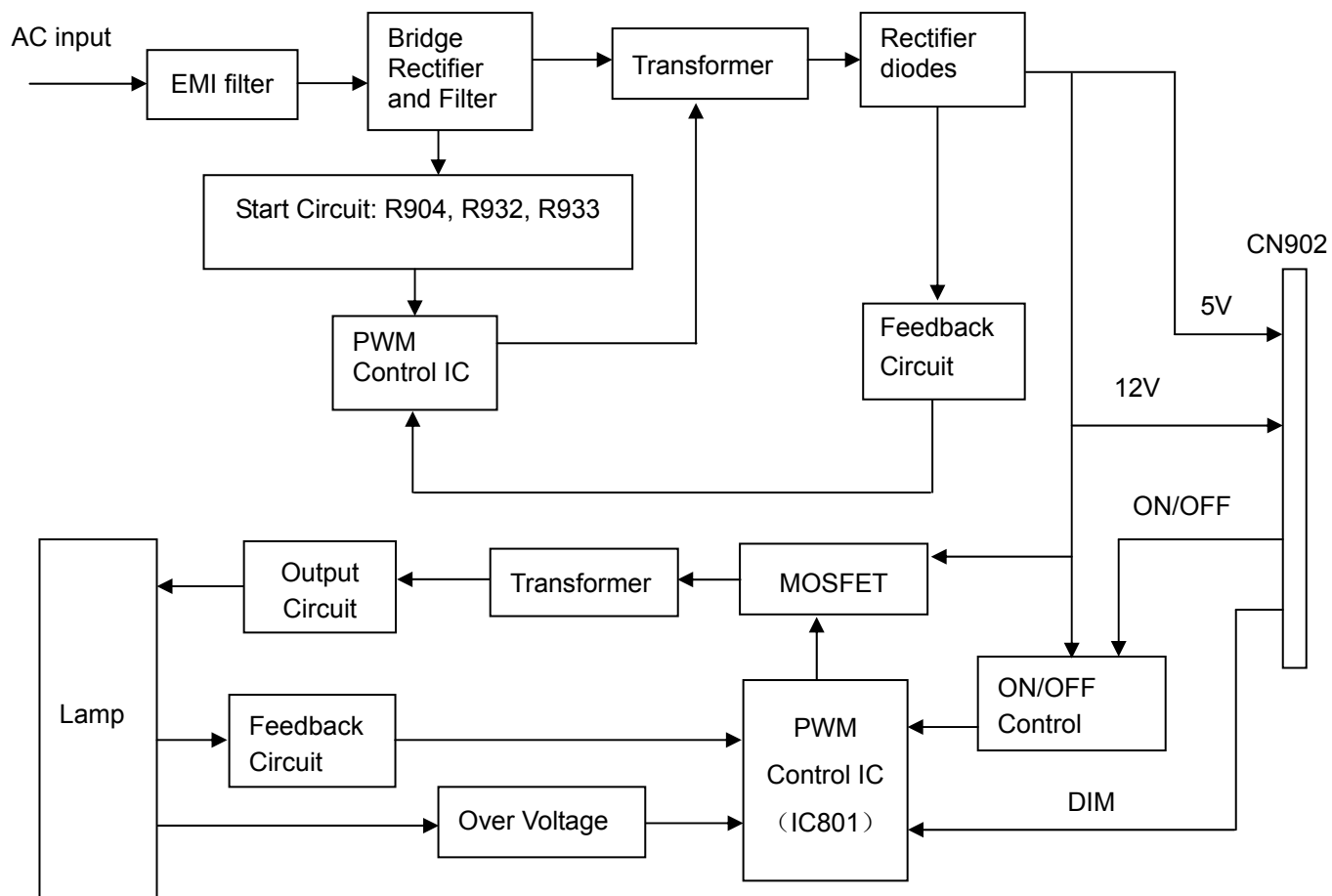
4.2.1 Main Board

VW224U





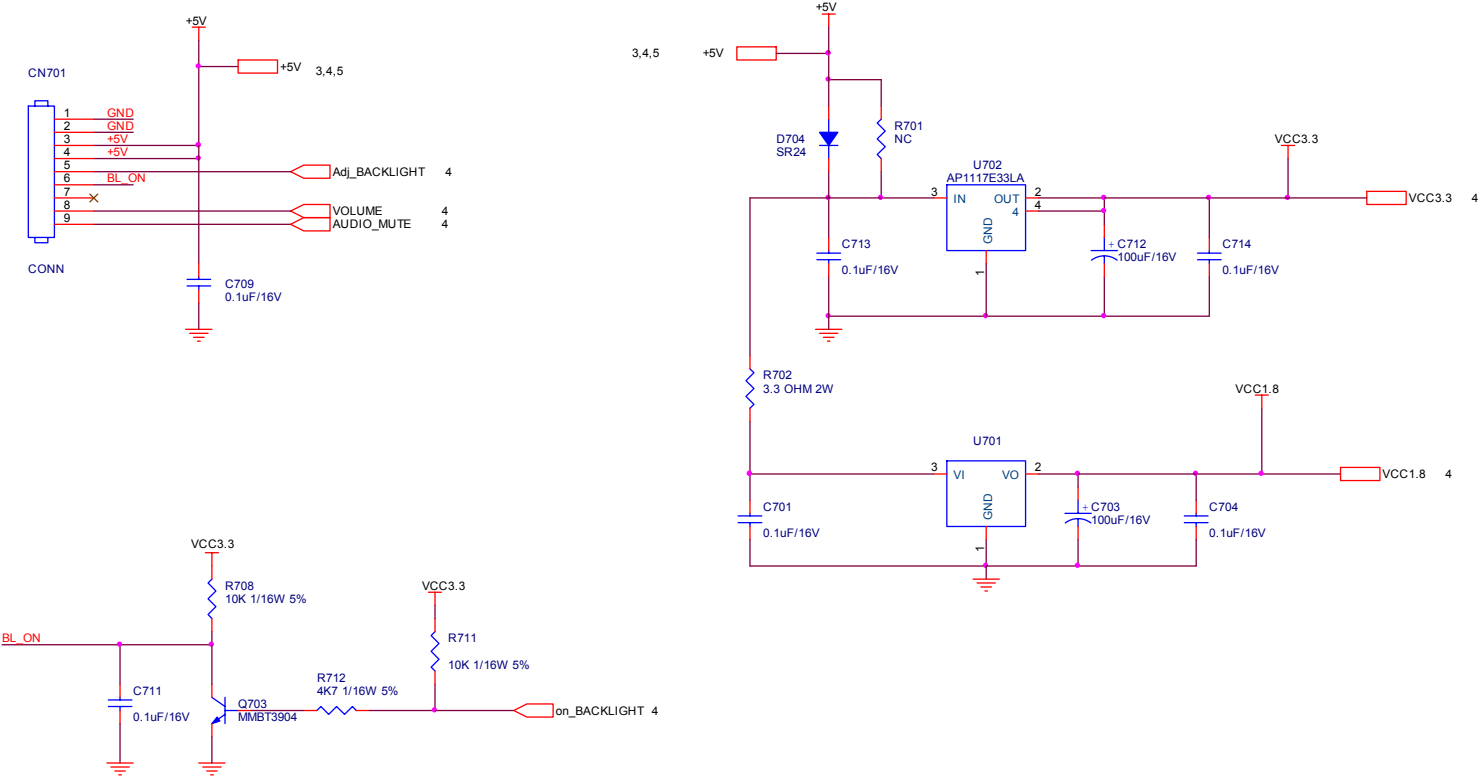
4.2.2 Inverter/Power Board



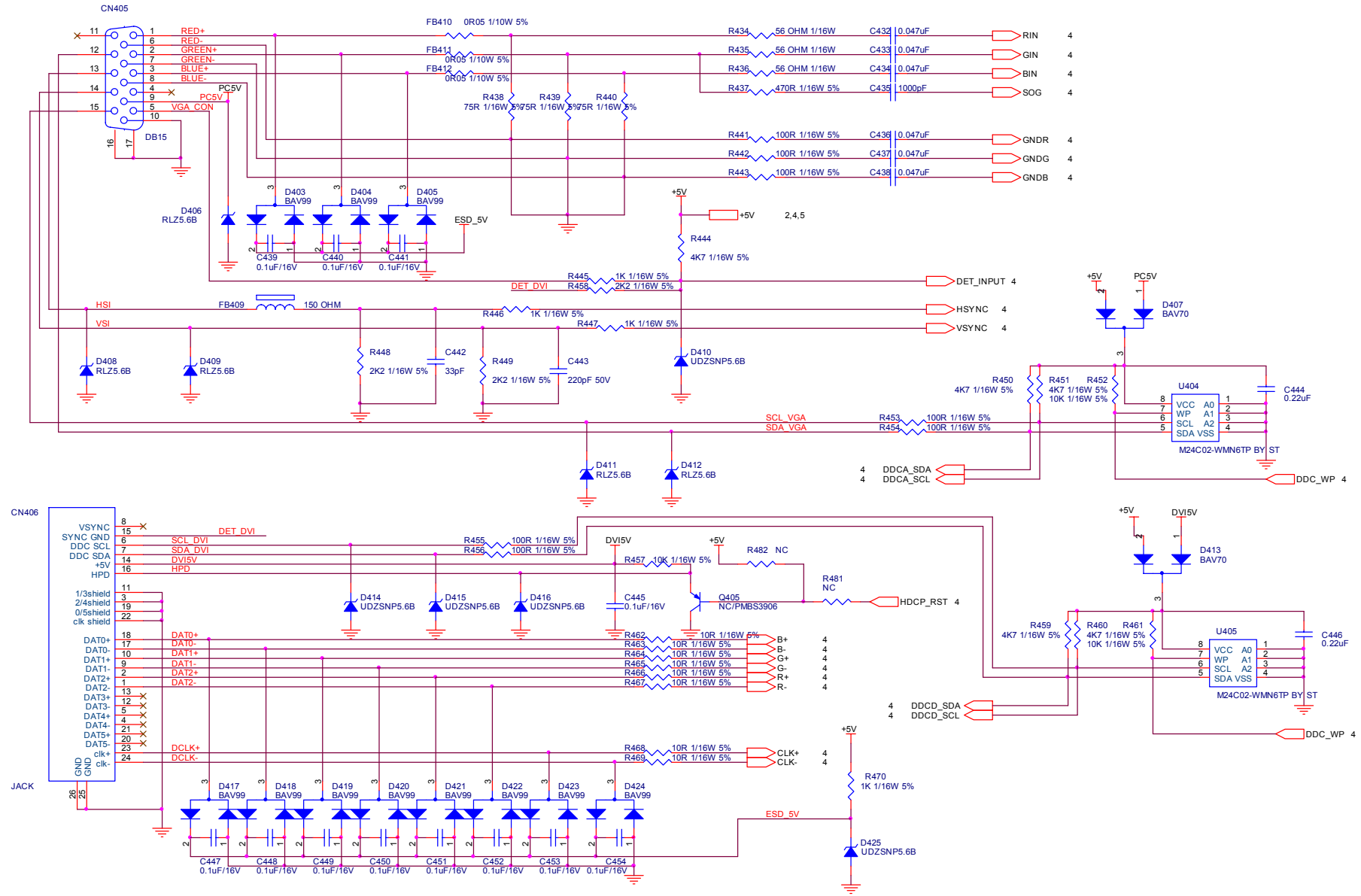
5. Schematic

5.1 Main Board

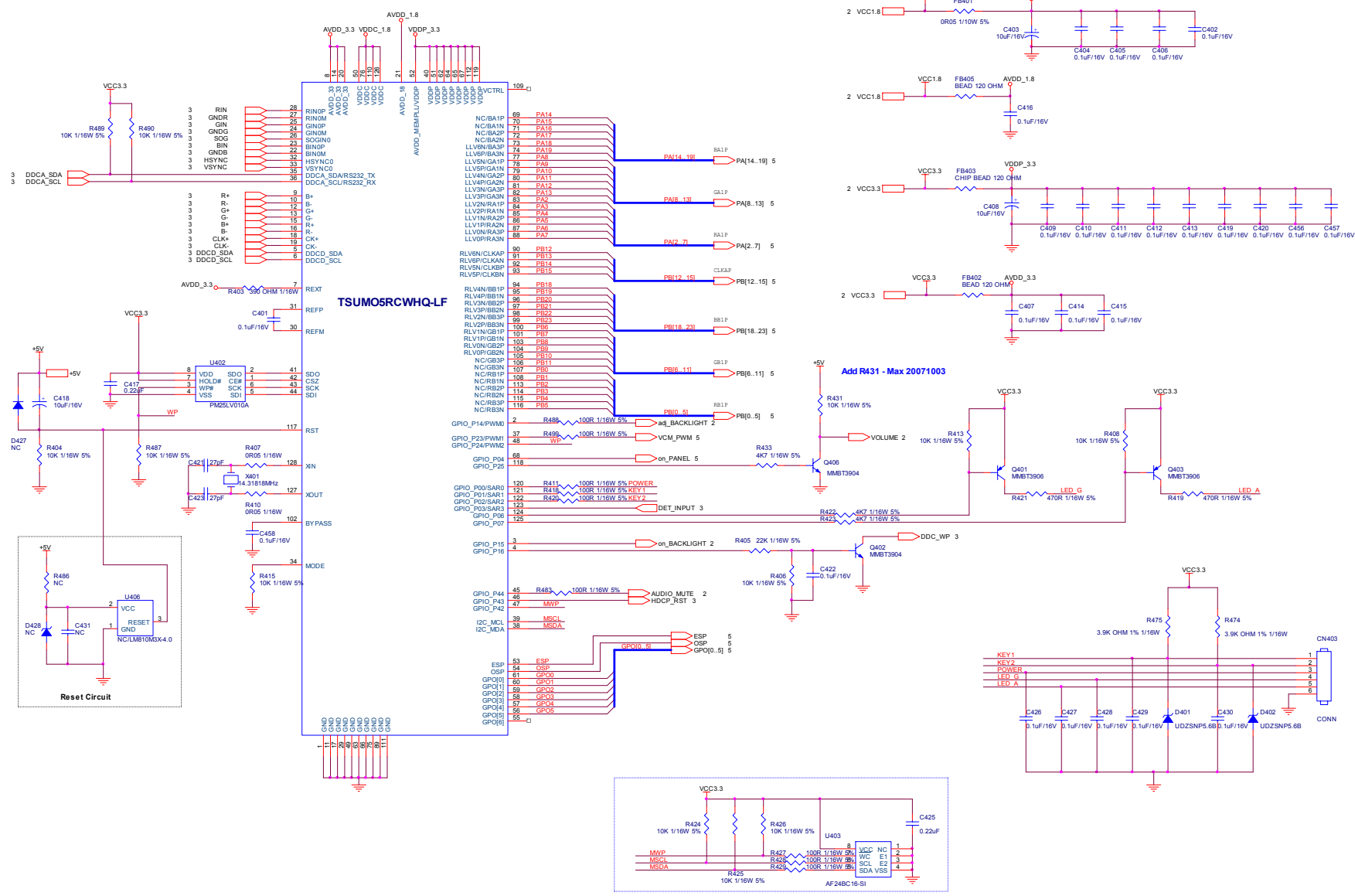
VW224U 715G2670-1-2



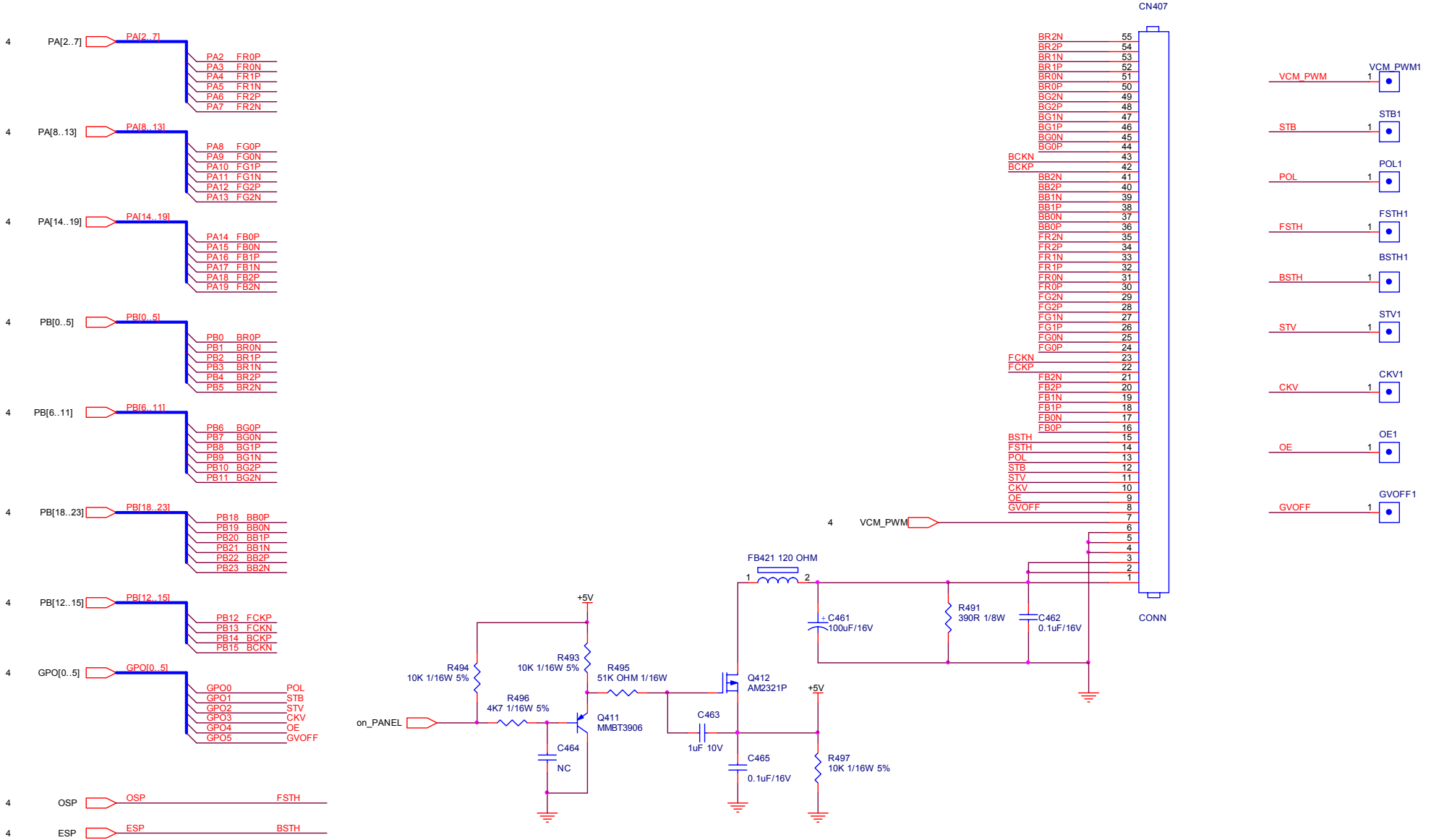
T P V (Top Victory Electronics Co., Ltd.)	OEM MODEL	VW224	Size	B
磊隔瓜網膜	G2670-1-2-X-2-080110	TPV MODEL	TCR2MPNCWY USD1	Rev
Key Component	2. POWER	PCB NAME	715G2670-1-2	修爹
Date	Thursday, January 10, 2008	Sheet	2 of 5	<修爹>



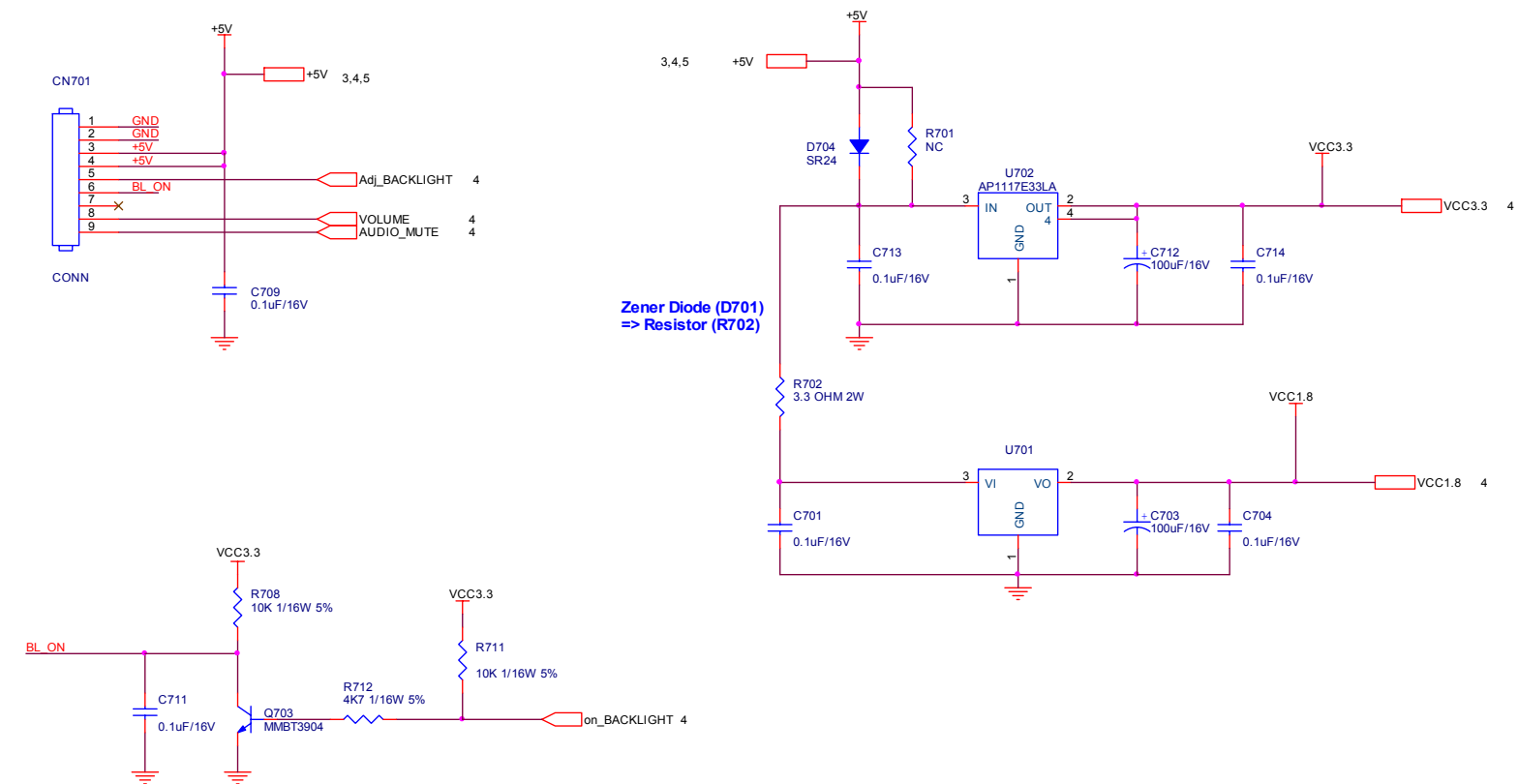
TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	VW224	Size	Custom
威爾瓜爾	G2670-1-2-X-2-080110	TPV MODEL	TCR2MPNCWYUSD1	Rev 1
Key Component	3. INPUT	PCB NAME	715G2670-1-2	稱號 <稱號>
Date	Thursday, January 10, 2008	Sheet	3 of 5	



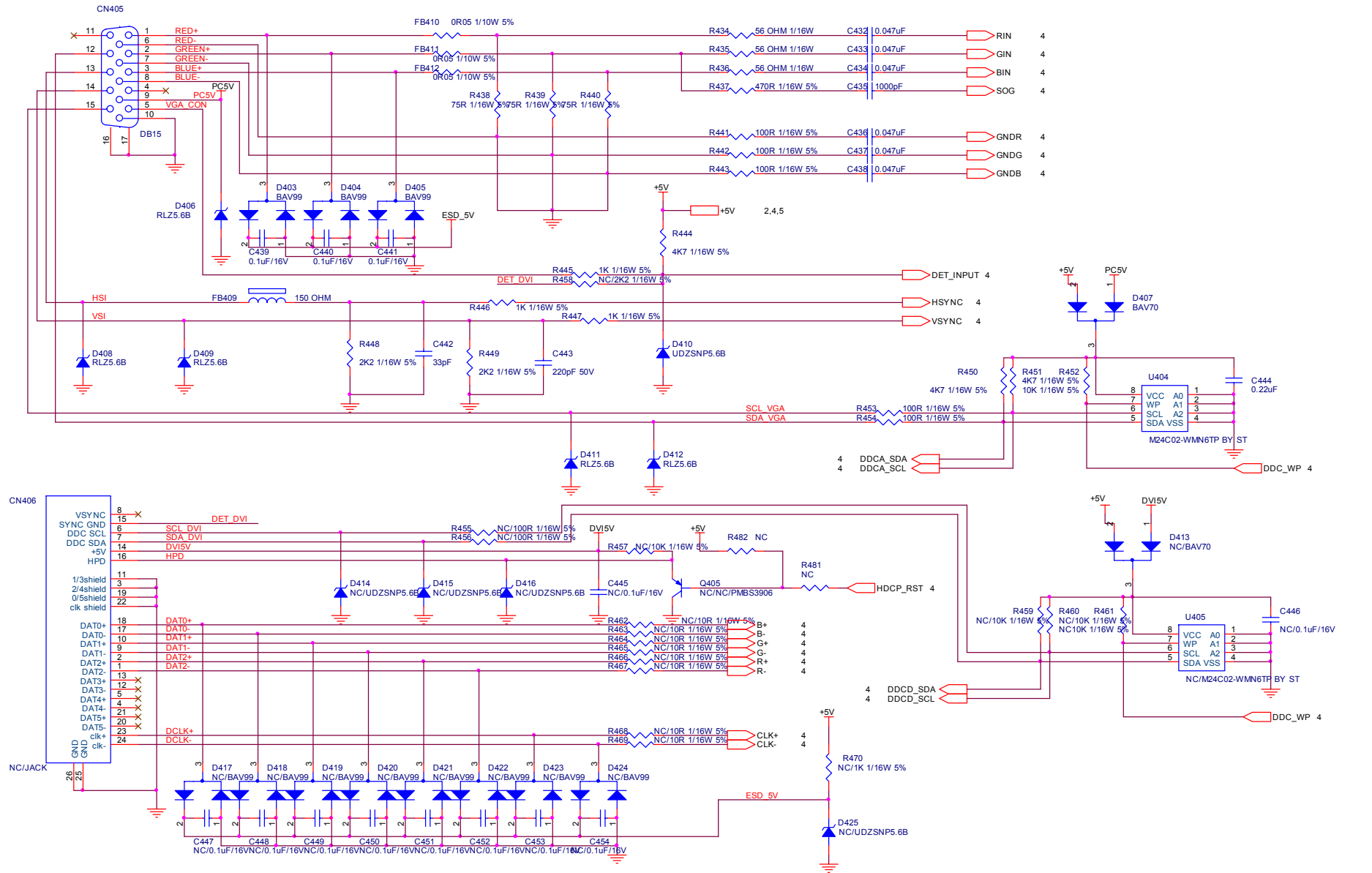
T P V (Top Victory Electronics Co., Ltd.)	OEM MODEL VW224	Size C
规格书版本 G2870-1-2-X2-080110	TPV MODEL TCR2MPNCWYUSD1	Rev 1
Key Component 4. SCALER	PCB NAME 715G2870-1-2	备注 <修图>
Date Thursday, January 10, 2008	Sheet 4 of 5	



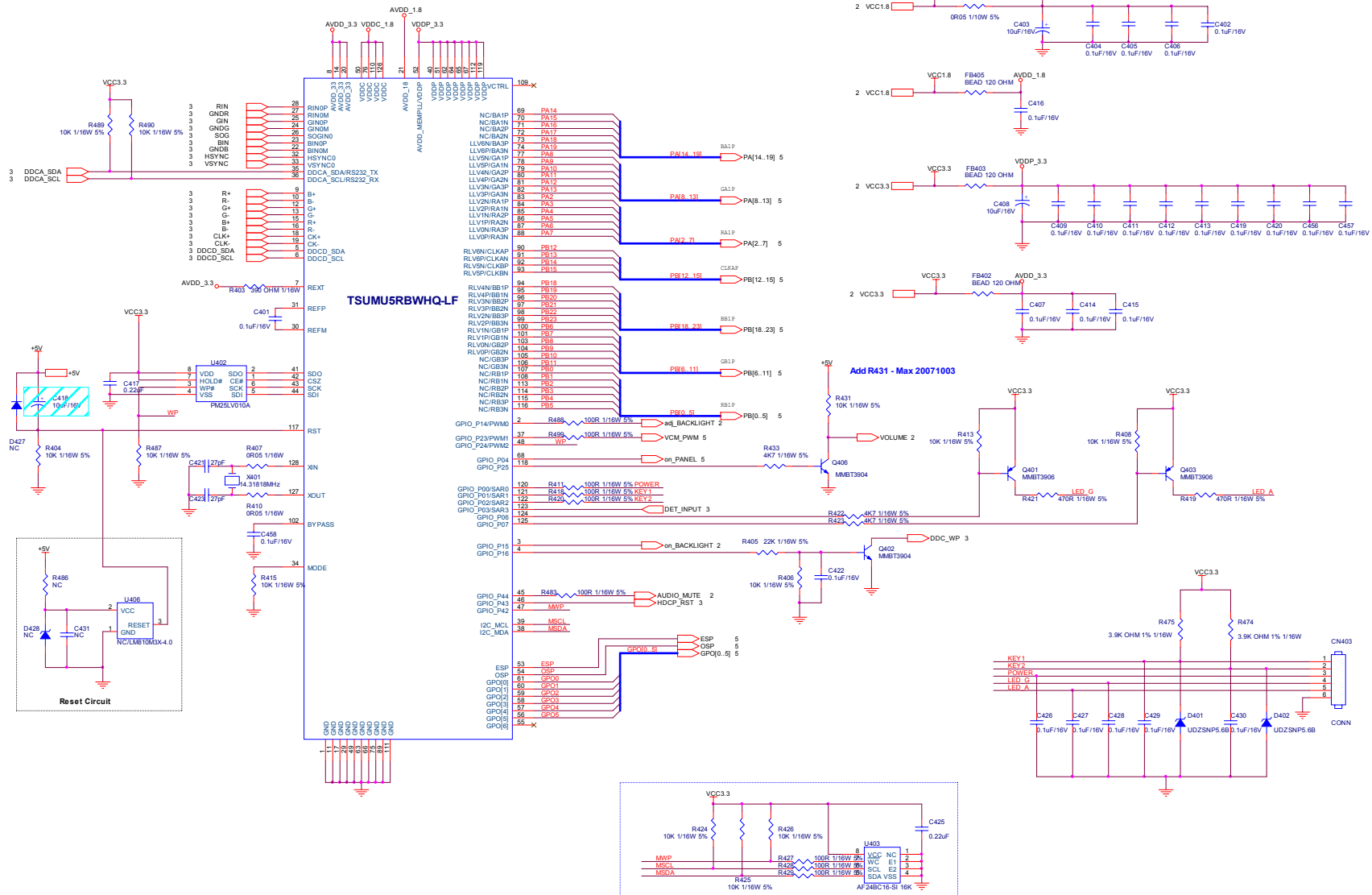
TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	VW224	Size	B
話隔瓜鋼腹 G2670-1-2-X-2-080110	TPV MODEL	TCR2MPNCWYUSD1	Rev	1
Key Component	5. PANEL INTERFACE	PCB NAME	715G2670-1-2	称爹 <称爹>
Date	Thursday, January 10, 2008	Sheet	5 of 5	



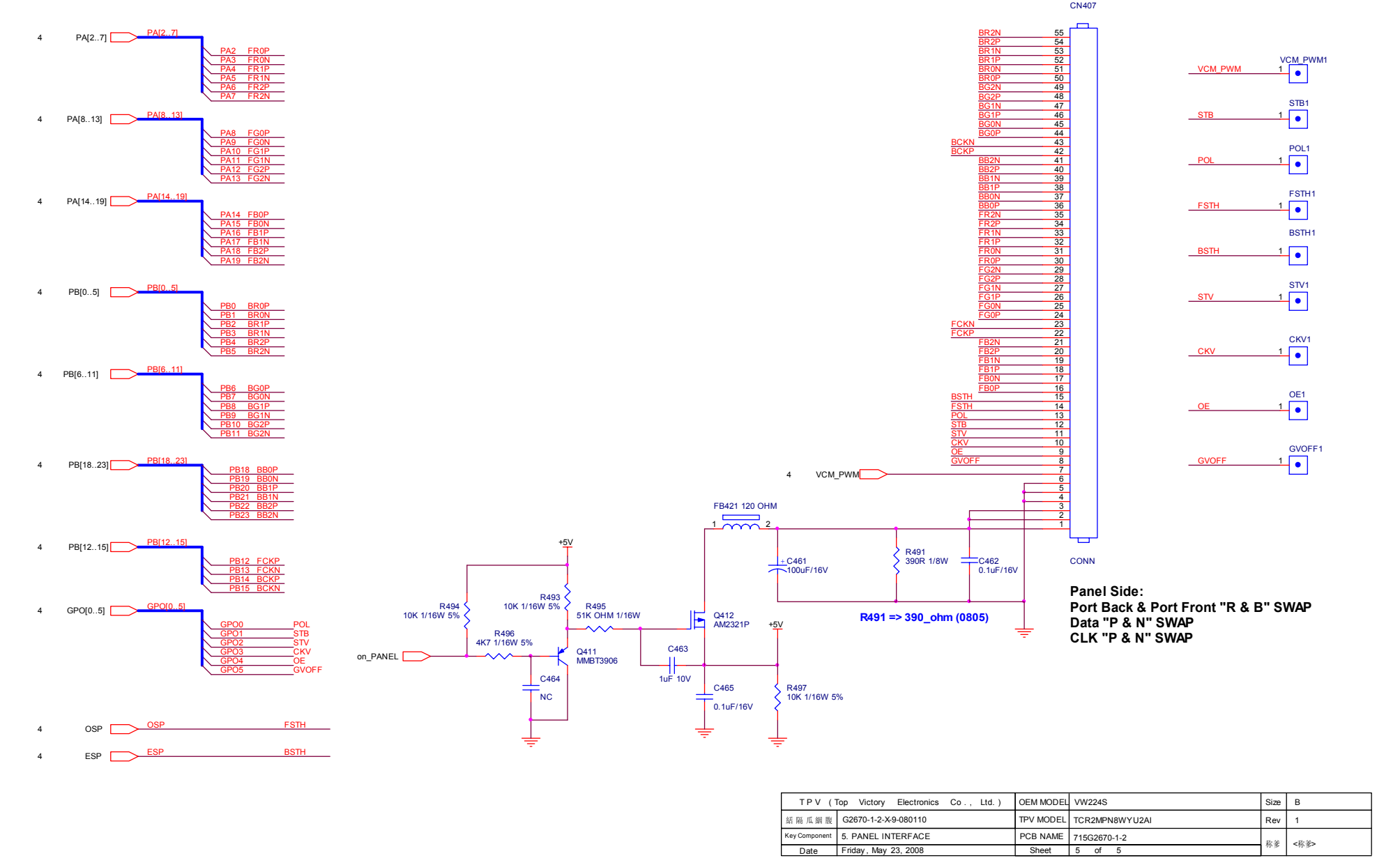
T P V (Top Victory Electronics Co. , Ltd.)	OEM MODEL	VW224S	Size	B
話 隔 瓜 網 膜	G2670-1-2-X-9-080110	TPV MODEL	TCR2MPN8WYU2AI	Rev 1
Key Component	2. POWER	PCB NAME	715G26701-2	称 爹 <称 爹>
Date	Friday , May 23, 2008	Sheet	2 of 5	



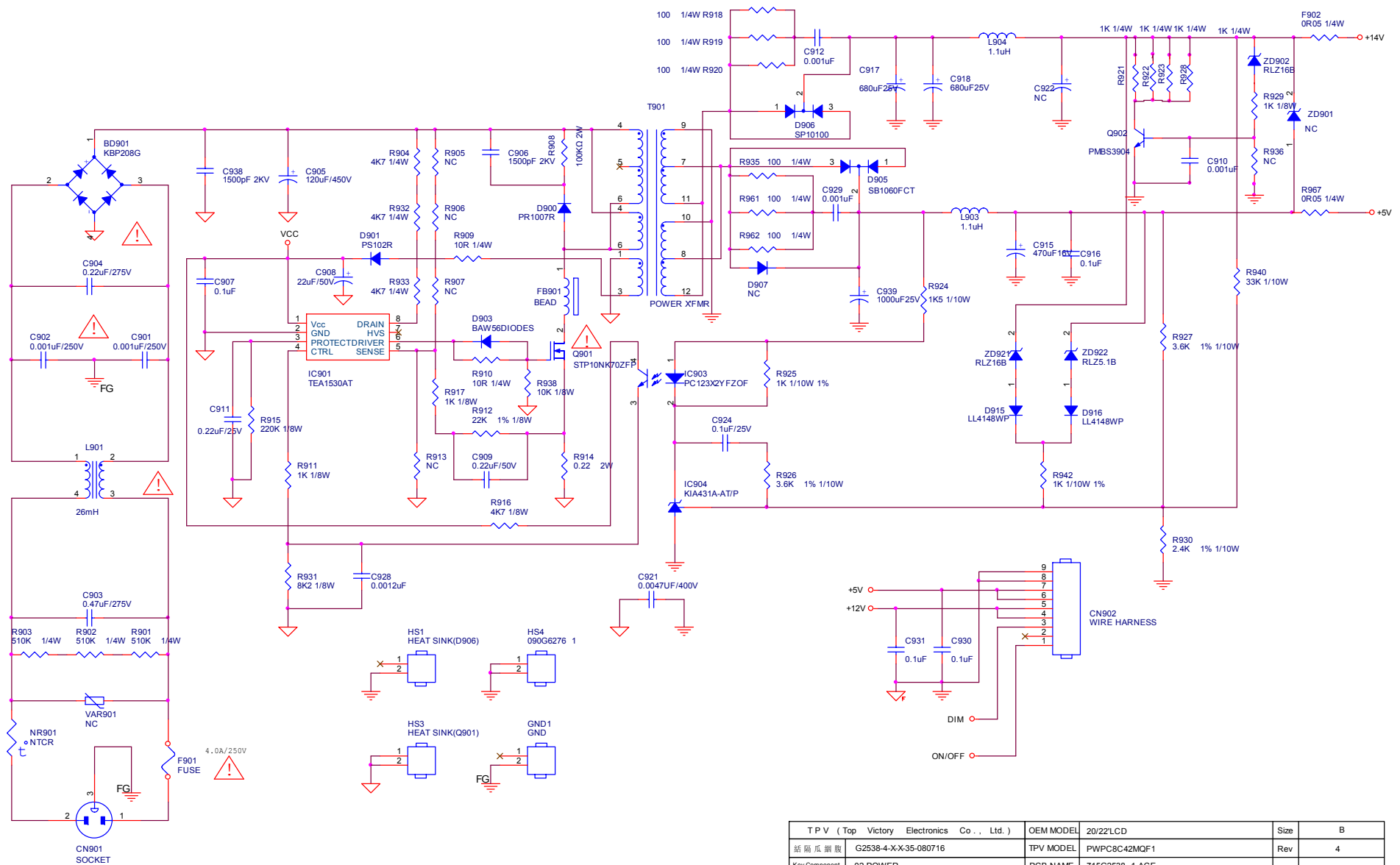
TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	VW224S	Size	Custom
話 隔 瓜 鋼 腹	G2670-1-2-X-9-080110	TPV MODEL	TCR2MPN8WYU2AI	Rev 1
Key Component	3. INPUT	PCB NAME	715G2670-1-2	稱 參 <稱 參>
Date	Friday, May 23, 2008	Sheet	3 of 5	



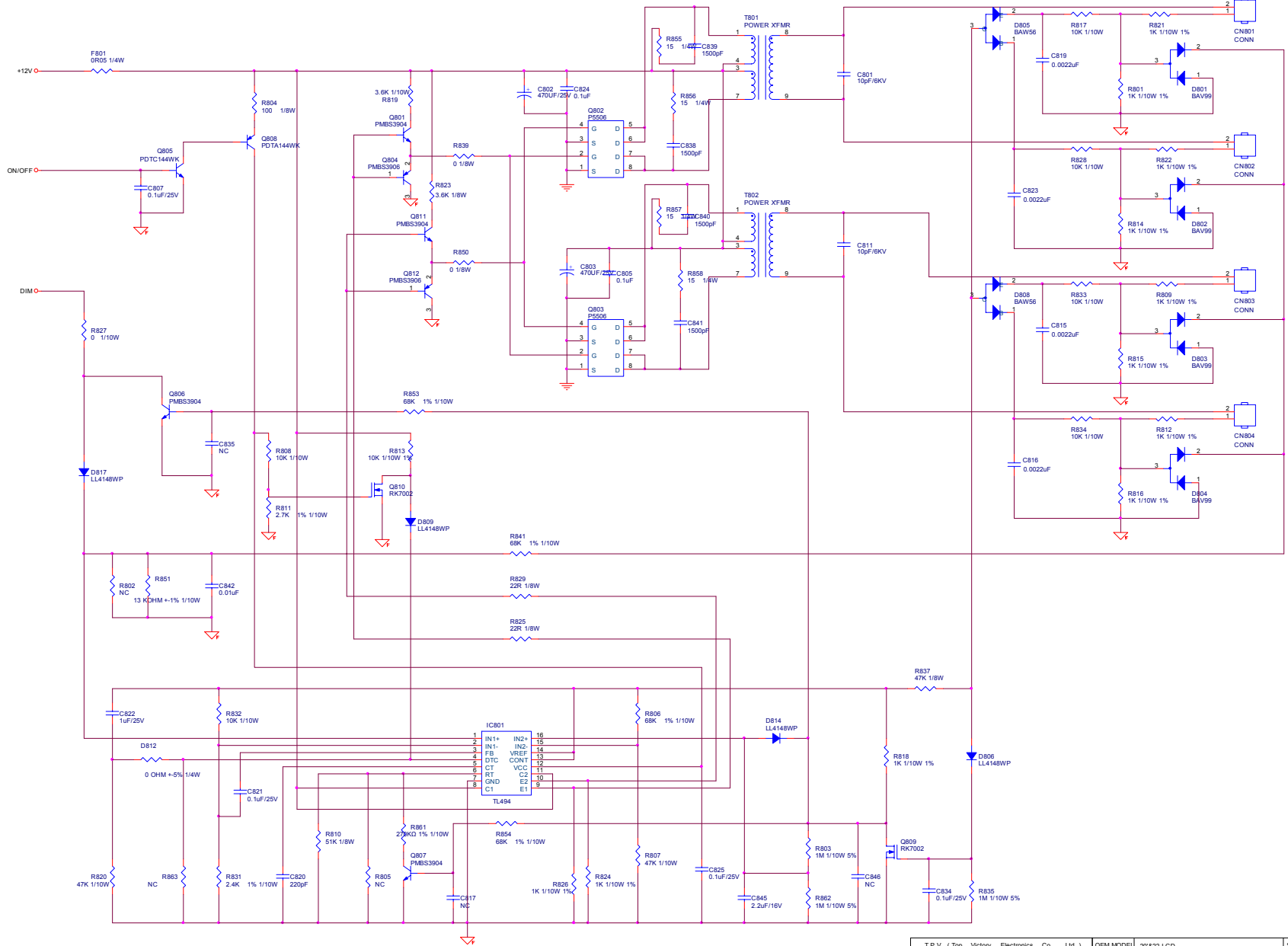
TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	VW224S	Size	C
話 術 或 圖 號	G2670-12-X-9-080110	TPV MODEL	TRC2MPN8WYU2AI	Rev	1
Key Component	4. SCALER	PCB NAME	715SG2670-12	料 號	<料號>
Date	Friday, May 23, 2008	Sheet	4 of 5		



715G2538-1-ACE



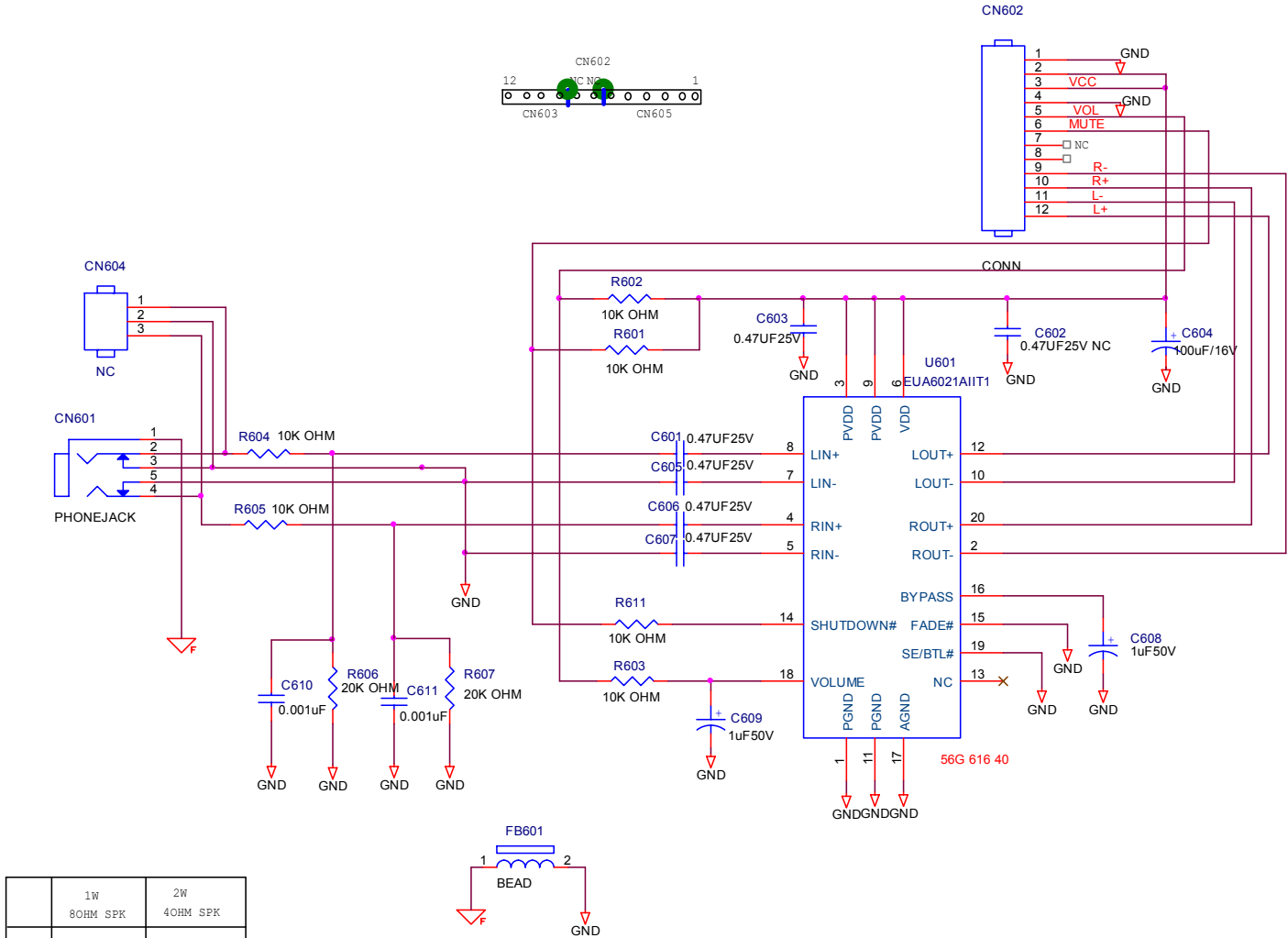
TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	20/22LCD	Size	B
紙隔瓜蝦眼 G2538-4-X-X-35-080716		TPV MODEL	PWPC8C42MQF1	Rev	4
Key Component	02.POWER	PCB NAME	715026538 1 ACE	修爹	<修爹>
Date	Wednesday, July 16, 2008	Sheet	2 of 3		



TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	20" LED LCD	Size	Custom
前置面板		G2538-4-XX35-080716	TPV MODEL	PWPC8CA2MQF1	Rev 4
Key Component		03.INVERTER	PCB NAME	715G2538 1 ACE	
Date	Thursday, July 17, 2008	Sheet	3 of 3	称量	<8>

5.3 Audio Board

715G2837-1-2

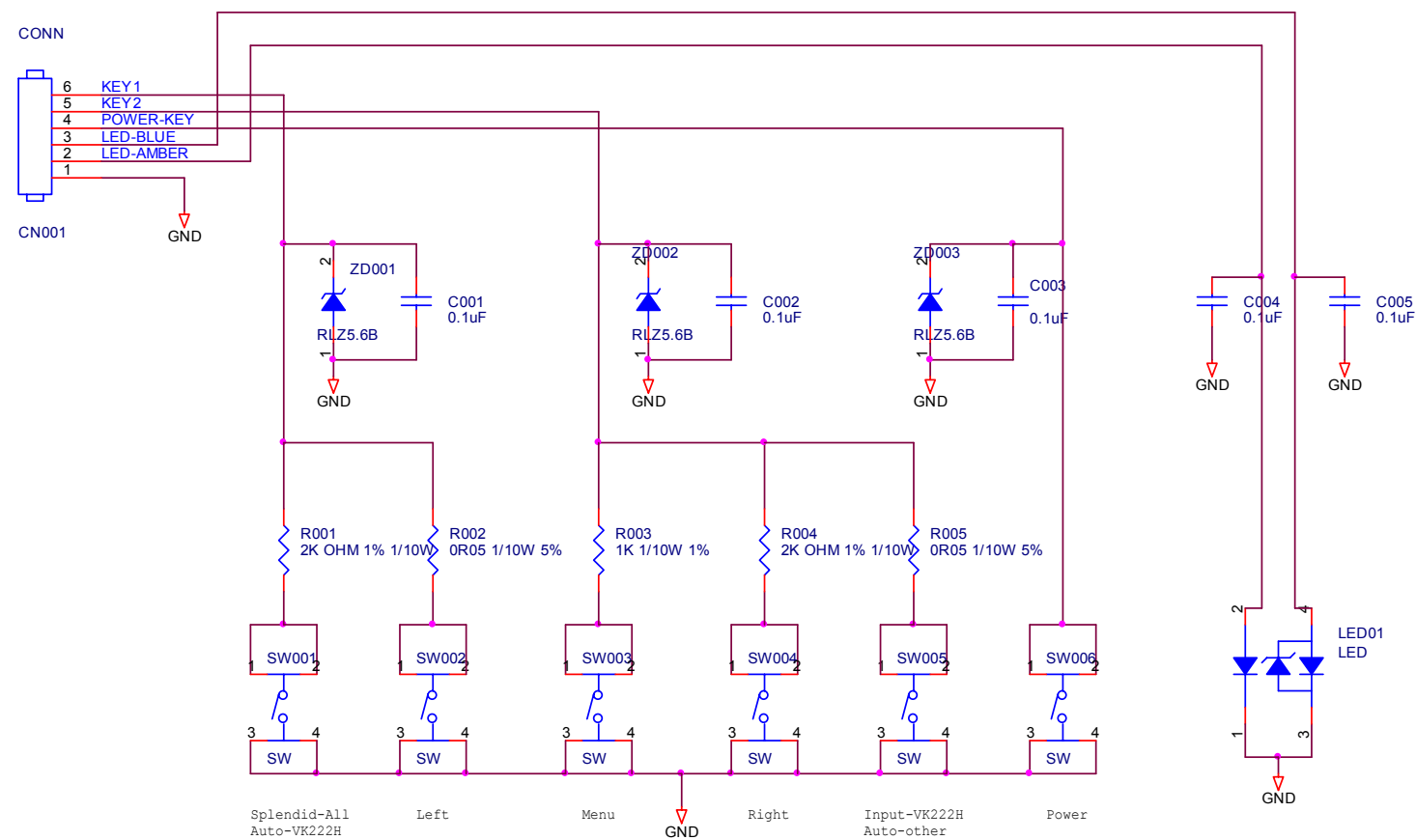


	1W 80HM SPK	2W 40HM SPK
R604 R605	065G 60291252T	065G 60227352T
R606	065G 60262252T	065G 60210352T

T P V (Top Victory Electronics Co., Ltd.)	OEM MODEL	ASUS VW224	Size	A4
紙隔瓜網膜	G2837-1-2-X-2-080707	TPV MODEL	AUPC8QU3	Rev 1
Key Component	01 AUDIO	PCB NAME	715G2837-1-2	称爹 <称爹>
Date	Monday, July 07, 2008	Sheet	2 of 2	

5.4 Key Board

715G2900-1

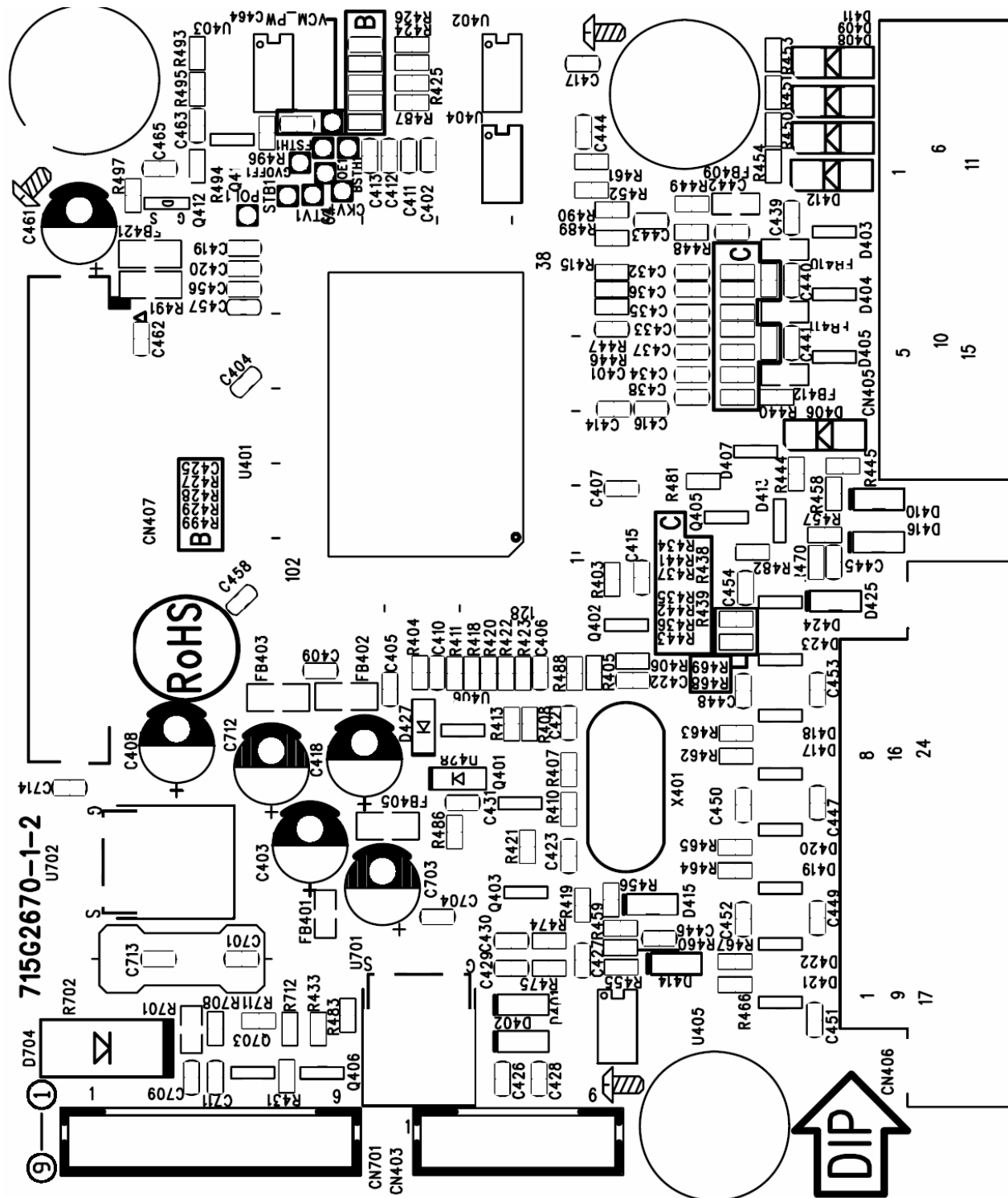


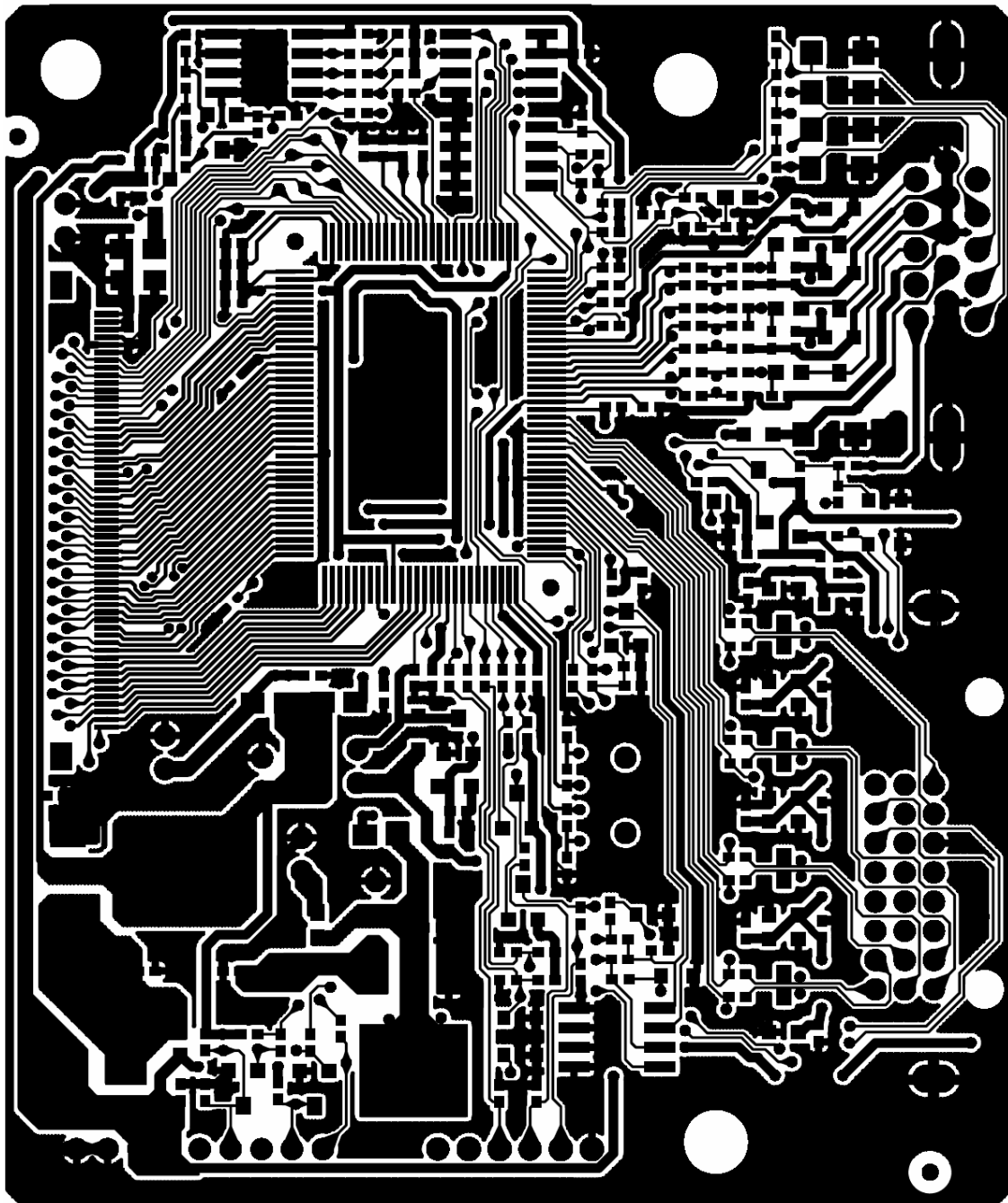
TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	ASUS VW224	Size	A
結構瓜網腹	G2900-E-x-x-1-080102	TPV MODEL	KEPC7QU1	Rev
Key Component	01.KEYBOARD	PCB NAME	G2900-E	称爹
Date	Thursday, January 03, 2008	Sheet	2 of 2	备注

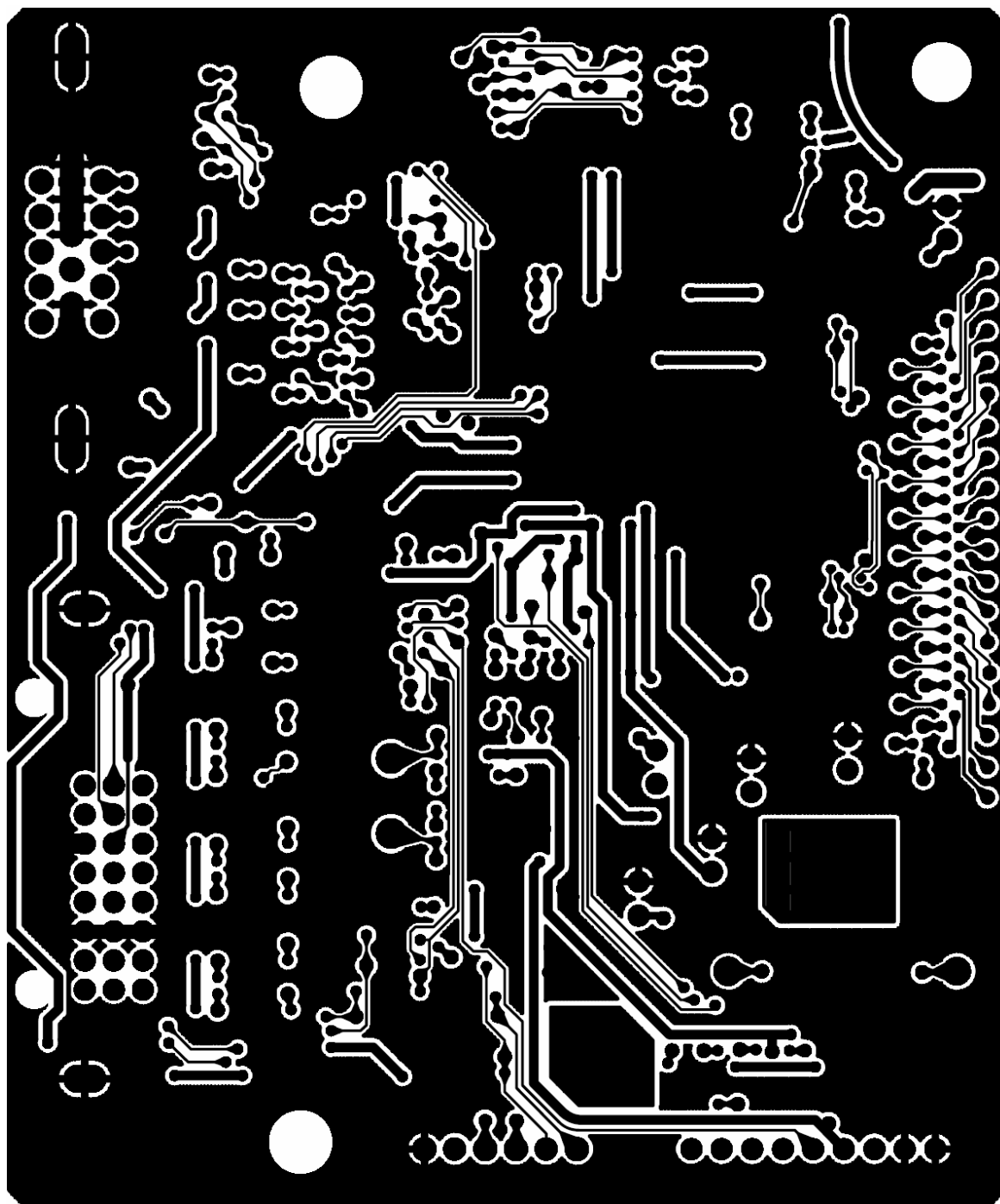
6. PCB Layout

6.1 Main Board

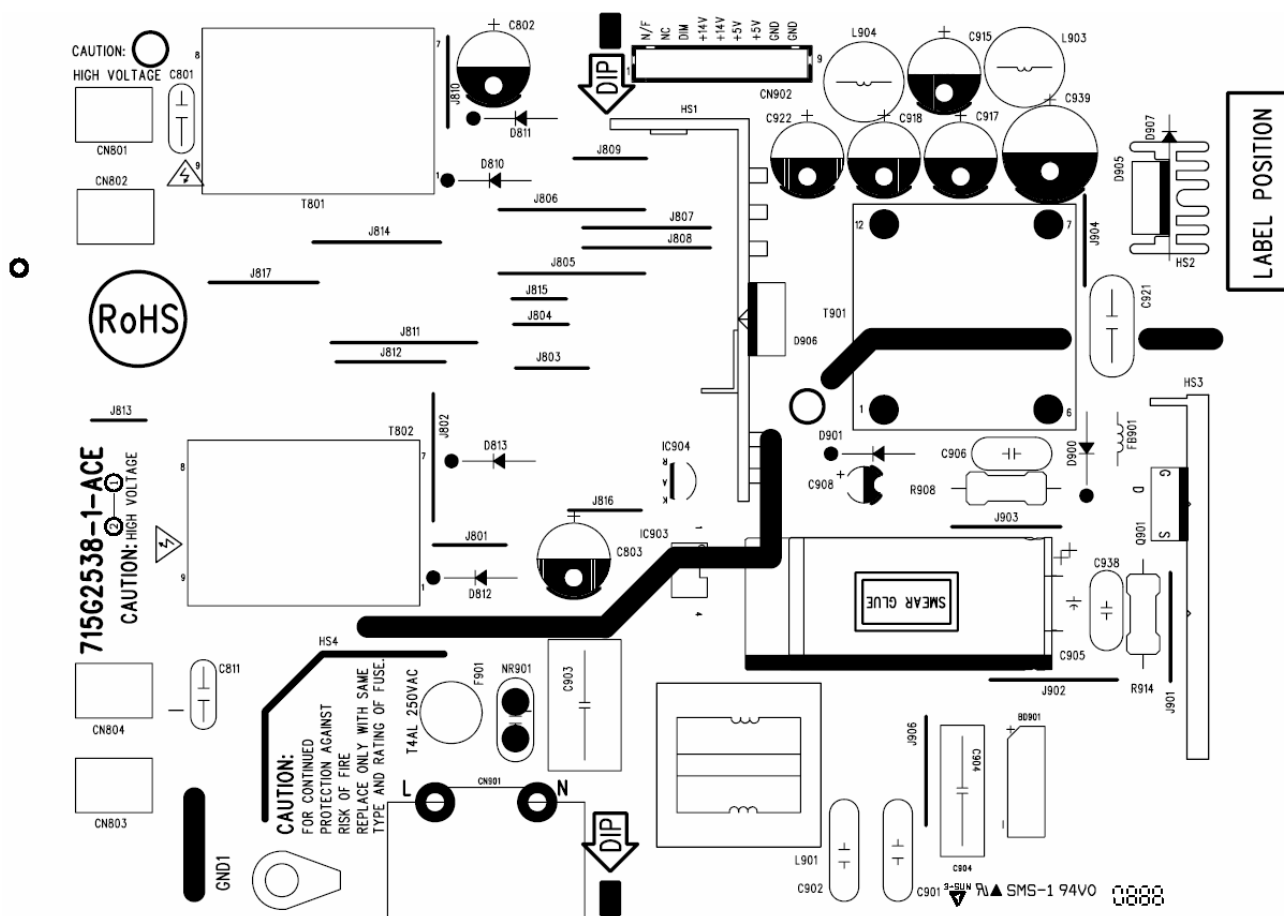
715G2670-1-2

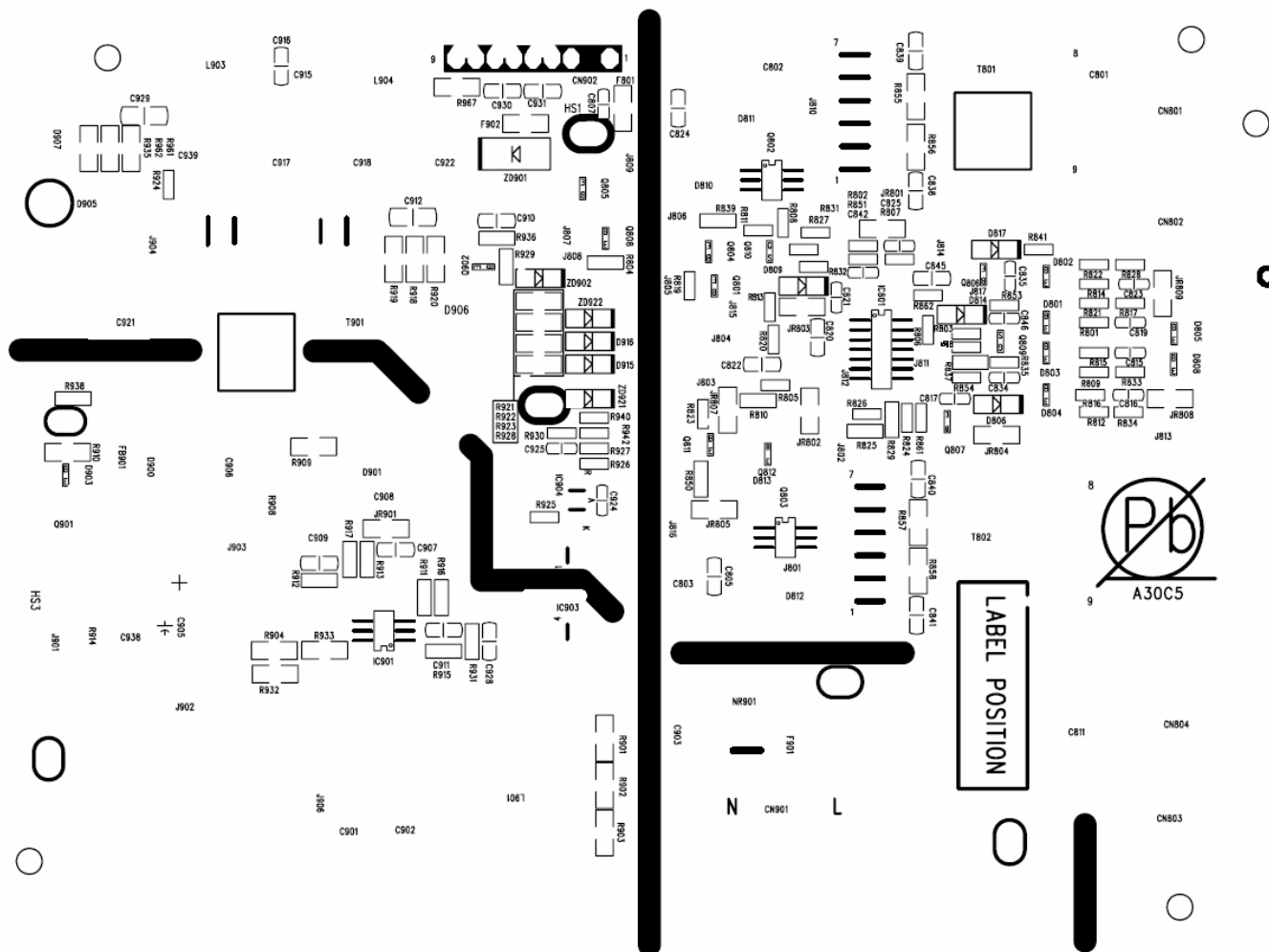


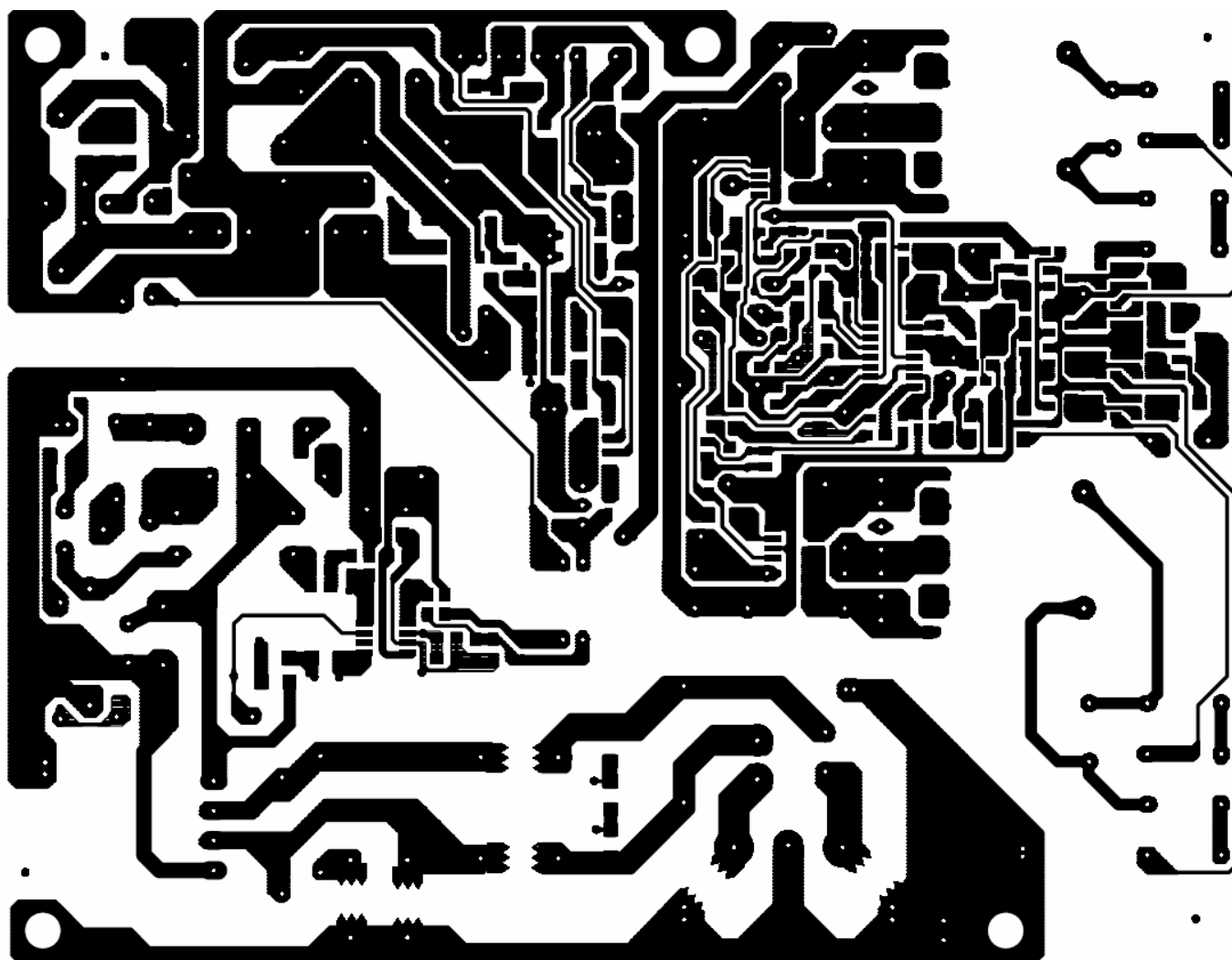




715G2538-1-ACE







7. Disassemble & Assemble SOP

7.1 Precaution

Please read the precautions as follows to prevent any damages to the LCD Monitor and also select the appropriate tools for disassembly and re-assembly.

- ◆ Make sure all power connection is removed. Be sure that the LCD Monitor is in power off status.
- ◆ Prepare soft cloth and sponge as working platform to place LCD monitor horizontally.
- ◆ Hold LCD by the side carefully and DON'T touch or press panel directly.



- ◆ Remove all rings, watches and any other metal objects from your hands which possible to cause scratch.



- ◆ Always wear a ground strap or anti-static glove to protect the parts from static discharge. ESD (electro-static discharge) protection is required to guarantee the safety of product and personnel.



7.2 Suggest Tools

Here are some tools that can be used for the LCD monitor's service and repair.

Philips-head Screwdriver

Use a Philips-head screwdriver to fasten/remove the K- or B-typed screws



P/N : N/A

Gloves

To protect LCD Panel and your hand



P/N: (L) N/A (M) N/A

C/D Disassembly Tool

Use C/D Disassembly Tool to open cosmetic cover and avoid scratch.



P/N: N/A

Spacer Screwdriver

Use a spacer screwdriver to fasten/remove spacer screws or hex screws.



P/N: N/A

7.3 Disassembly Procedure

Information in this section is to perform the disassembly procedure of the LCD monitor. Depending on the failures, replace the defective parts accordingly.

ASUS VW224U LCD monitor consists of various subsystems. This section describes the procedures for LCD monitor disassembly. In addition, the detailed disassembly procedures of individual subsystem will be provided for your service needs.

The disassembly procedure consists of the following steps:

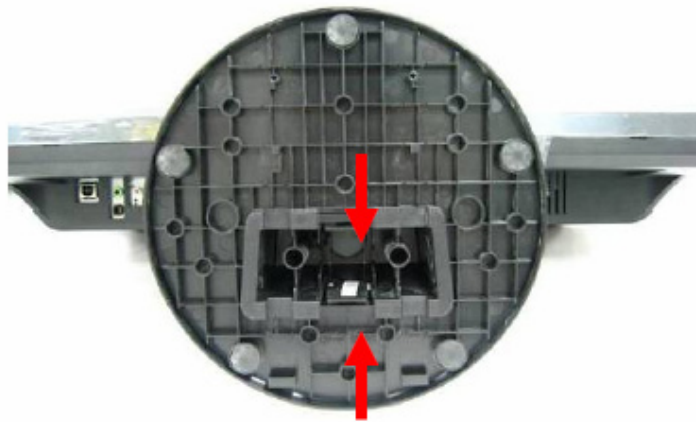
3.1 Stand Subsystem

3.2 Main Subsystem

3.3 Bezel Subsystem

7.3.1 Stand Subsystem

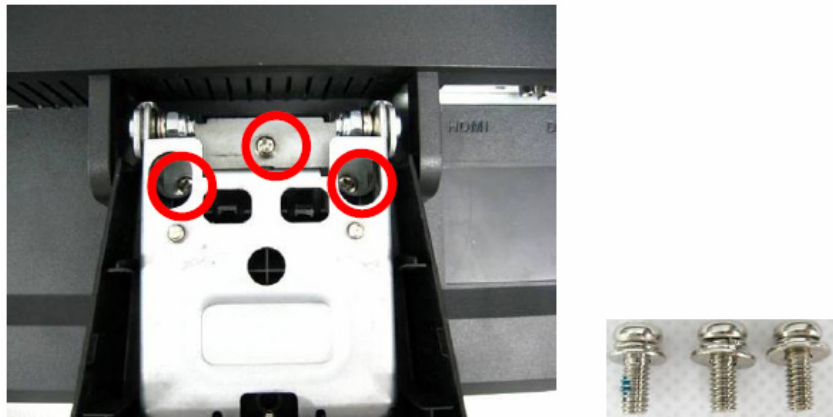
1. Unlock the latches under BASE to dismount.



2. Use C/D disassembly tool to unlock STAND COVER.



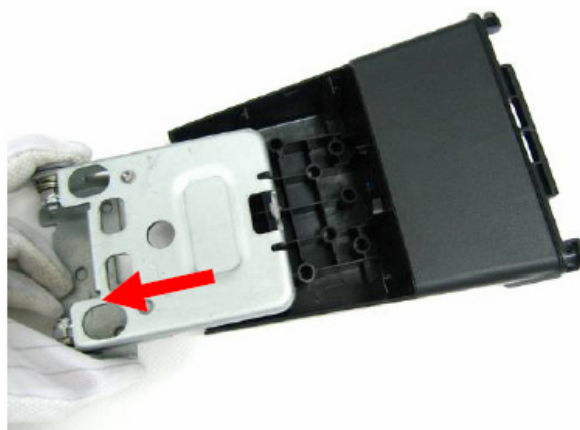
3. Remove 3 screws on the STAND, and then remove STAND.



4. Remove 3 screws



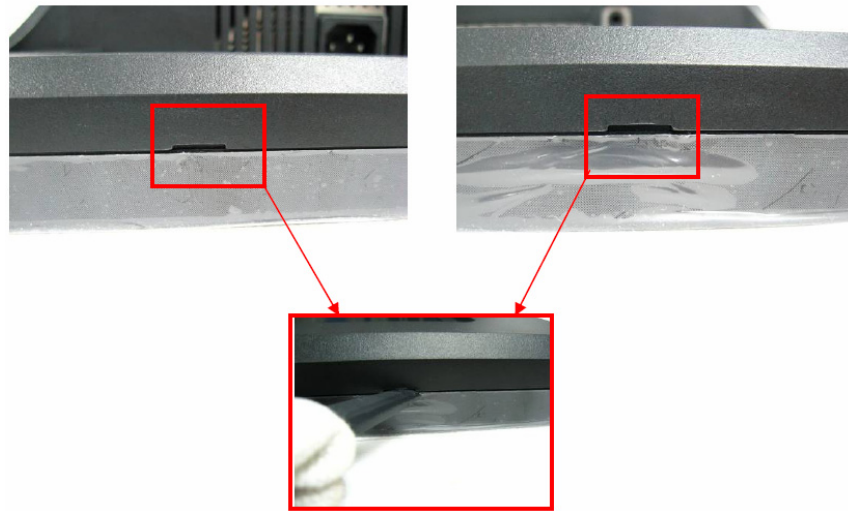
5. Dismount HINGE



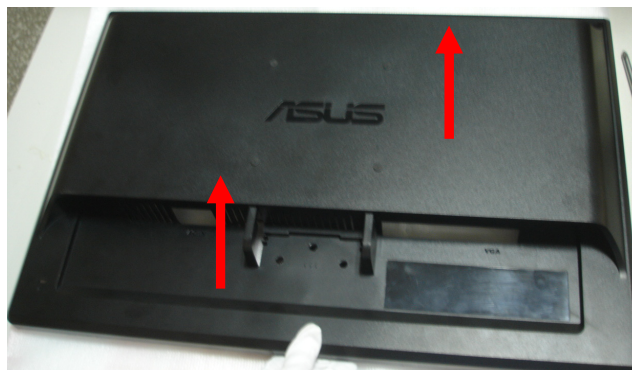
7.3.2 Main Subsystem

Back Cover

1. Use disassembly tool to open 2 latches at the bottom of BACK COVER as below, and then open the other latches along the edge of the BACK COVER.

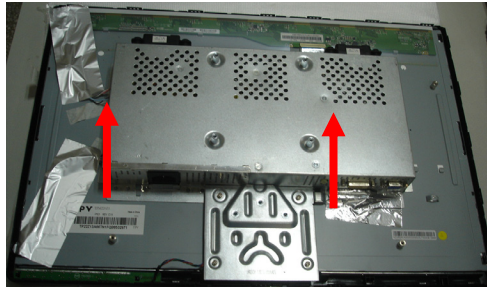


2. Lift to dismount BACK COVER.

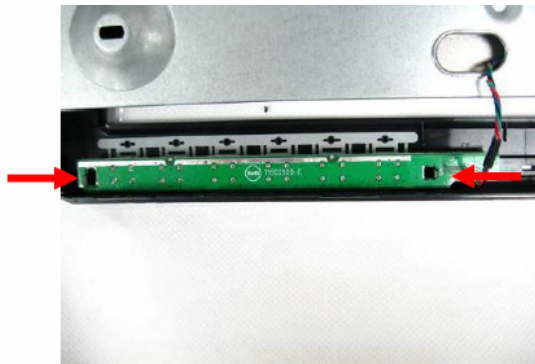


Key Board

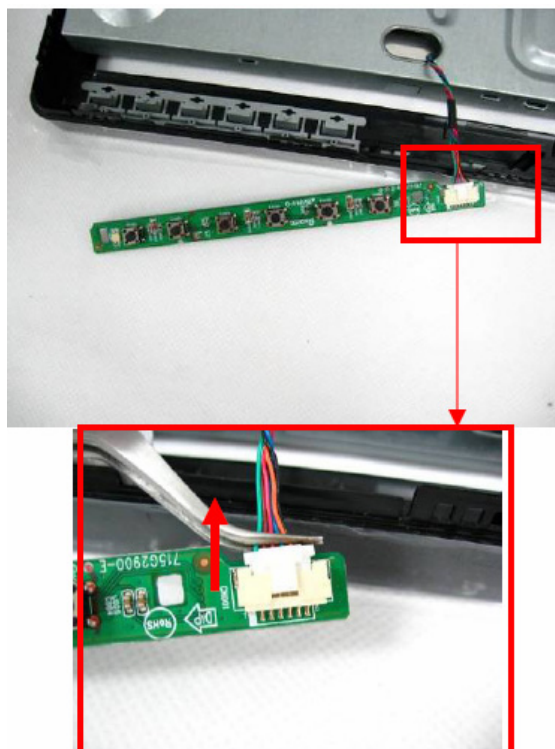
1. Move up it a little as following.



2. Unlock left and right latches to dismount KEY BOARD.



3. Disconnect KEY BOARD CABLE.



Main Shielding

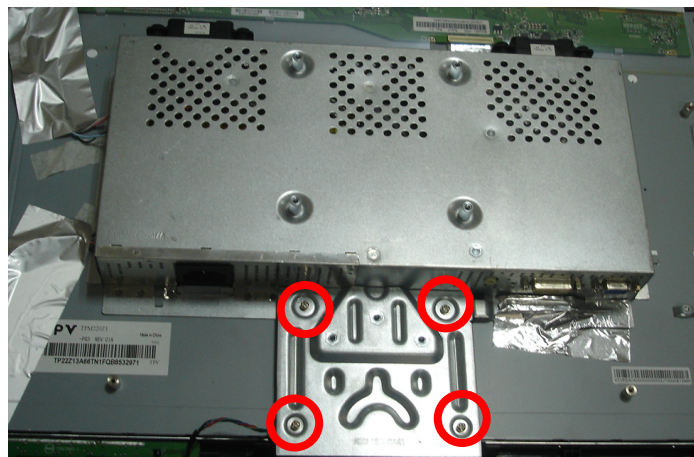
1. Lift to separate the MAIN SHIELDING from BEZEL.



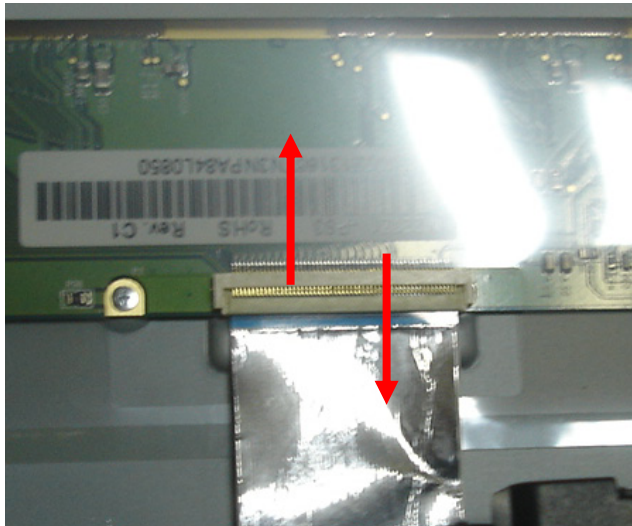
2. Disconnect LAMP WIRES.



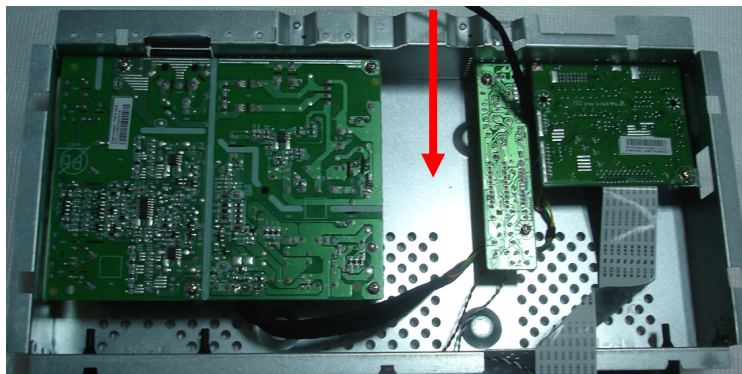
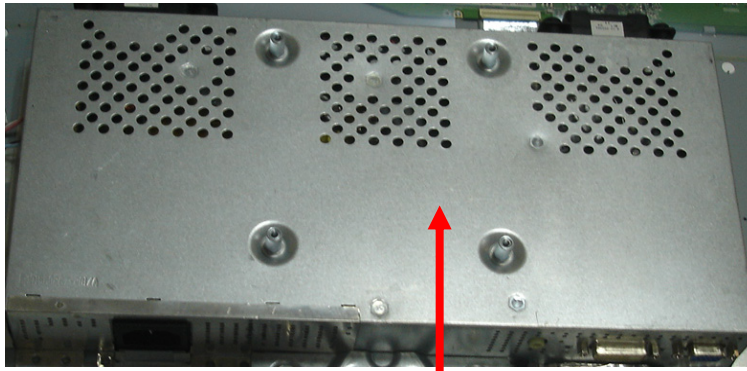
3. Release 4 screws HEAT SINK and pull down the MAIN SHIELDIGN.



4. Press to release left and right latches of LVDS CABLE, and then disconnect it.

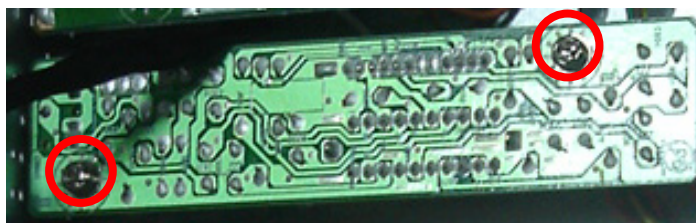


5. Remove the MAIN SHIELDING away from the LCD PANEL.

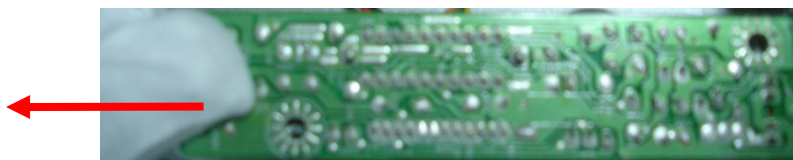


Audio Board

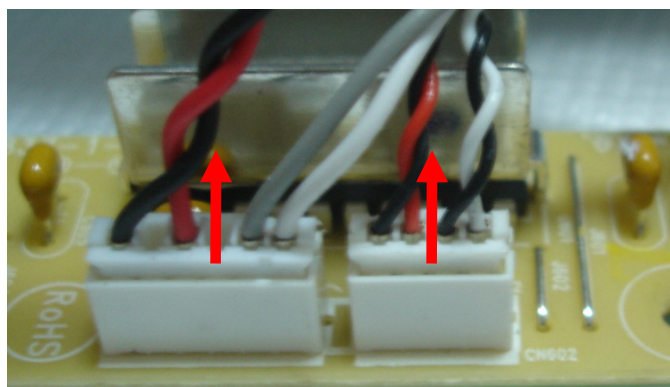
1. Release 2 screws on AUDIO BOARD.



2. Remove AUDIO BOARD

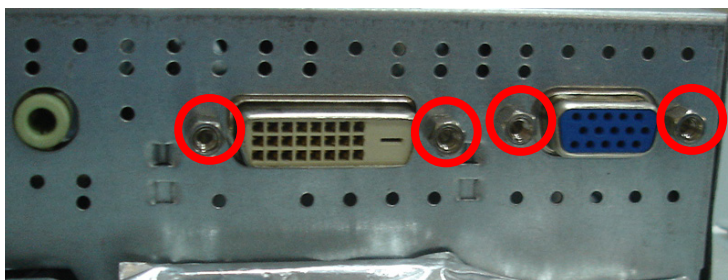


3. Disconnect AUDIO CABLE and KEY CABLE

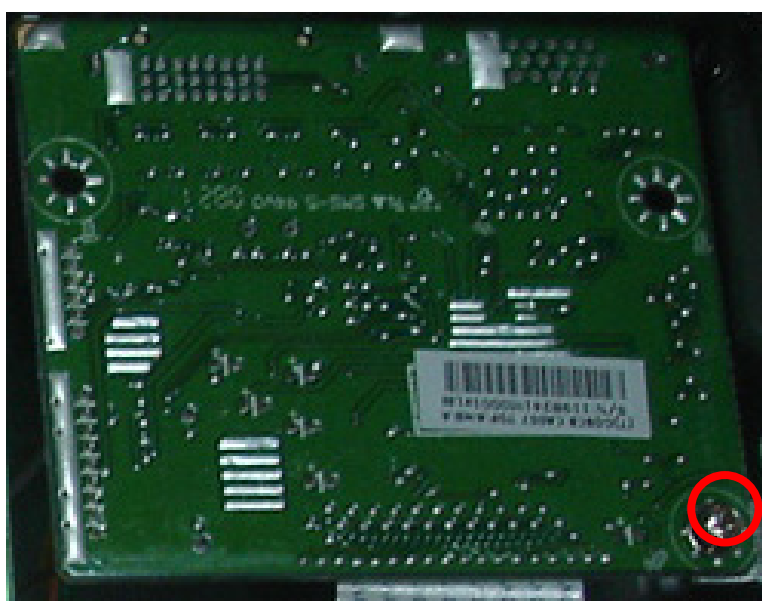


Main Borad

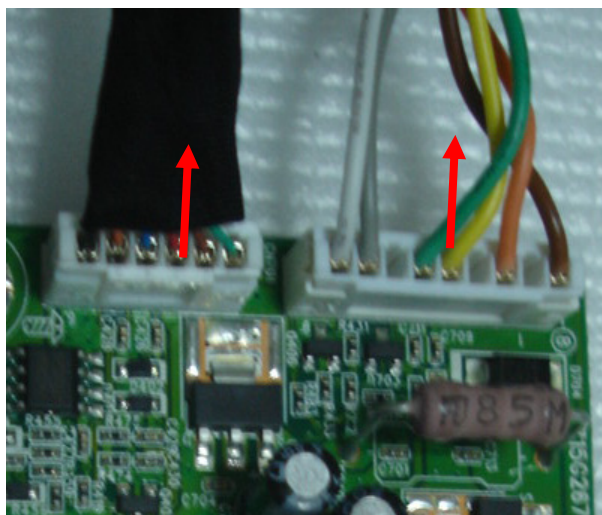
1. Release 4 screws.



2. Release 1 screw on MAIN BOARD.



3. Turn over the MAIN BOARD and disconnect AUDIO BOARD CABLE and MAIN BD_POWER BD CABLE.

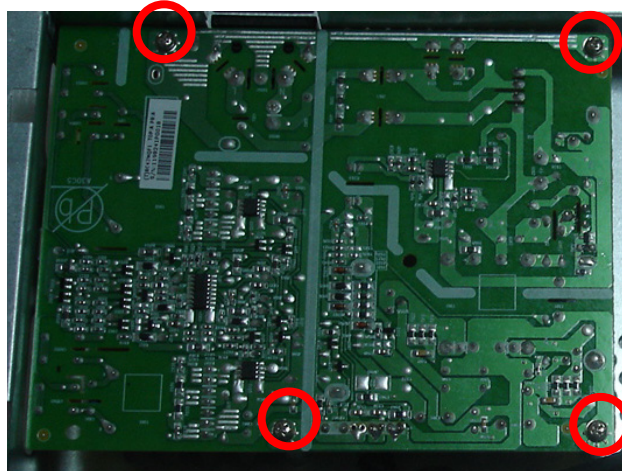


4. Press to disconnect LVDS CABLE.



Power Board

1. Release 4 screws on POWER BOARD.

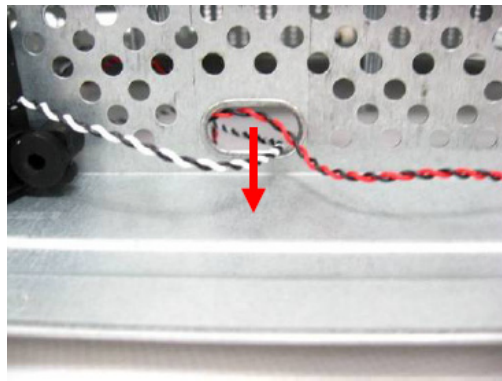


2. Remove POWRE BOARD

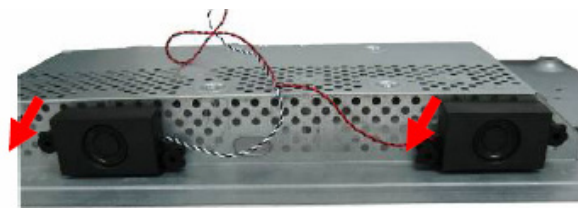


Speaker Module

1. Pull the SPEAKER CABLE out of the hole.



2. Remove SPEAKERS.

**7.3.3 Bezel Subsystem**

Dismount KEY PAD.



Note: The disassembly way of VW224S is the the same as the VW224H's.

7.4. Assembly Procedure

Information in this section is to perform the assembly procedure of the LCD monitor.

ASUS VW224U LCD monitor consists of various subsystems. This section describes the procedures for LCD monitor assembly. In addition, the detailed assembly procedures of individual modules will be provided for your service needs.

The assembly procedure consists of the following steps:

- Bezel Subsystem
- Main Subsystem
- Stand Subsystem

7.4.1 Bezel Subsystem

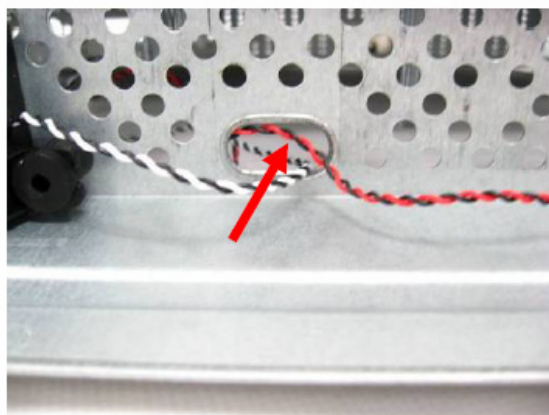
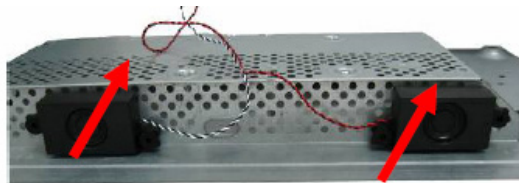
1. Assemble the KEY PAD onto the LCD BEZEL.



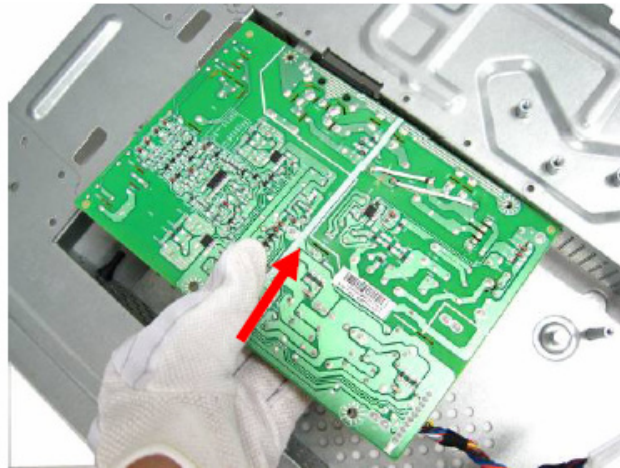
7.4.2 Main Subsystem

Speaker Module

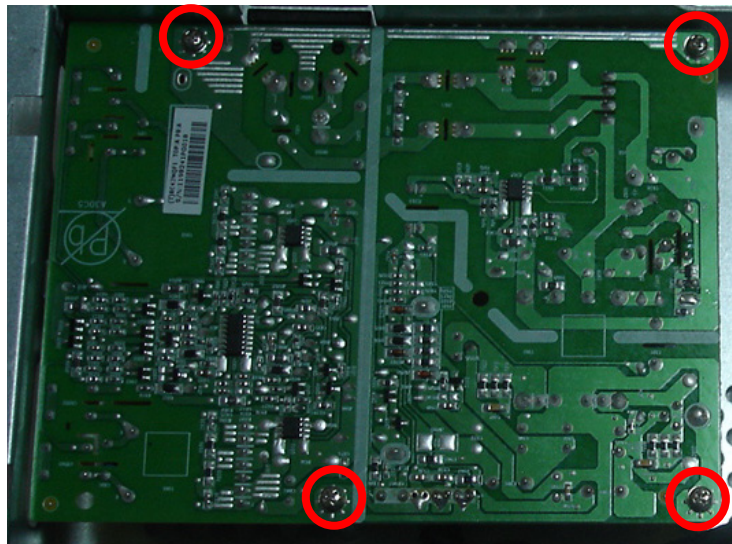
1. Install the SPEAKER and spread the SPEAKER CABLE through the hole.



1. Assemble POWER BOARD on PANEL FRAME.



2. Tighten 4 screws on POWER BOARD.

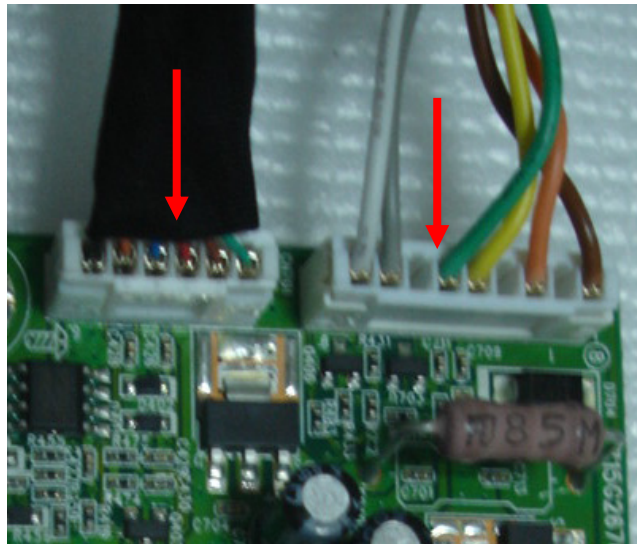


Main Board

1. Plug LVDS CABLE.



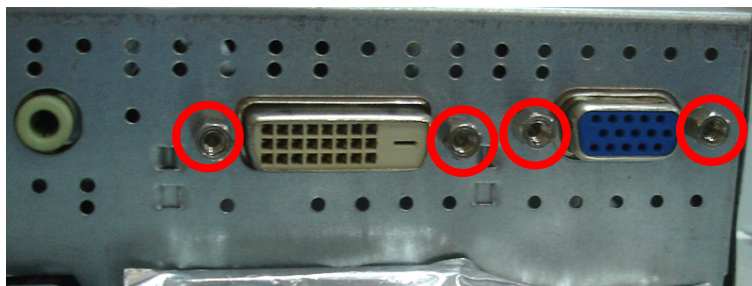
2. Connect AUDIO BOARD CABLE and MAIN BD_POWER BD CABLE with MAIN BOARD.



3. Assemble MAIN BOARD, then tight 1 screw on them.

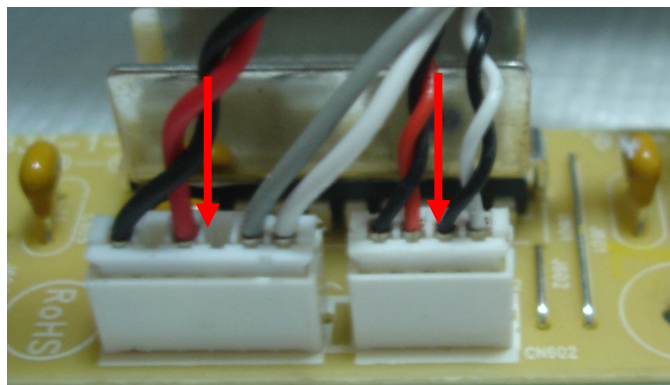


- Secure 5 screws.

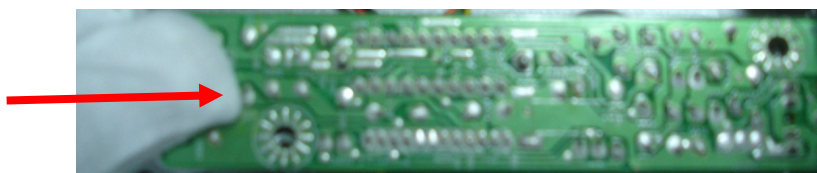


Audio Board

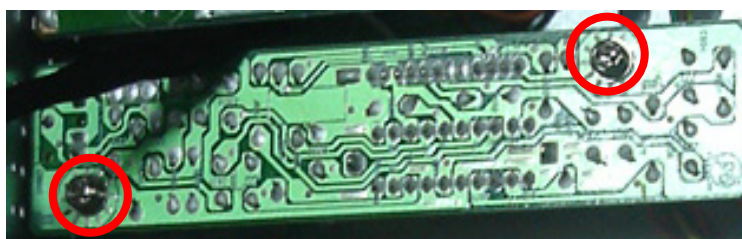
- Connect AUDIO CABLE and KEY CABLE.



- Assemble AUDIO BOARD.

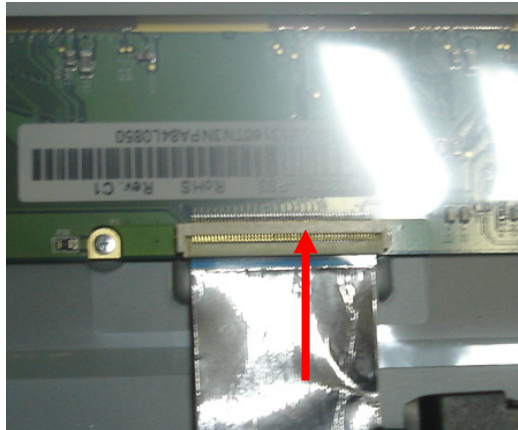


- Thread the AUDIO CABLE through the hole and secure 1 screw.

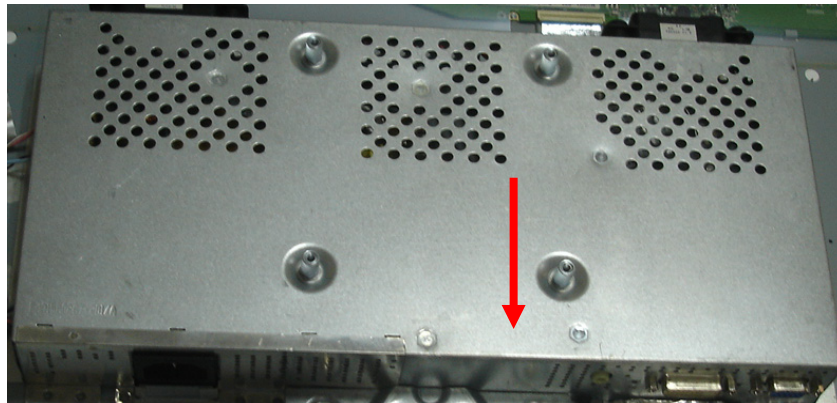


Main Shielding

1. Connect the LVDS CABLE.



2. Assemble the MAIN SHIELDING with LCD PANEL.

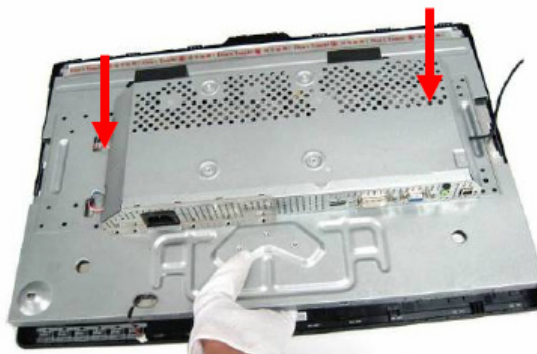


3. Connect LAMP WIRES.

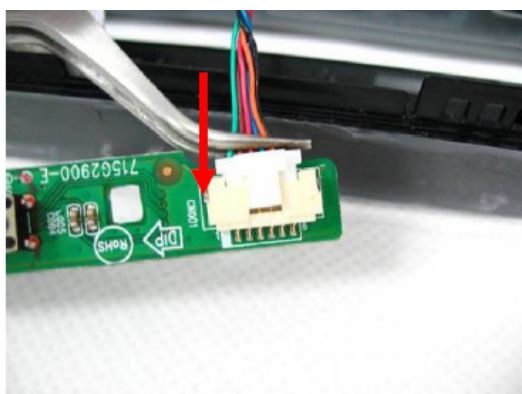


Key Board

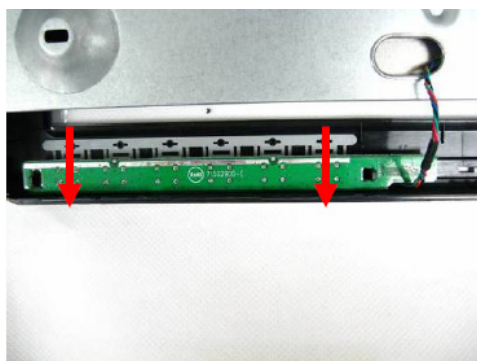
1. Place PANEL ASSY on the BEZEL.



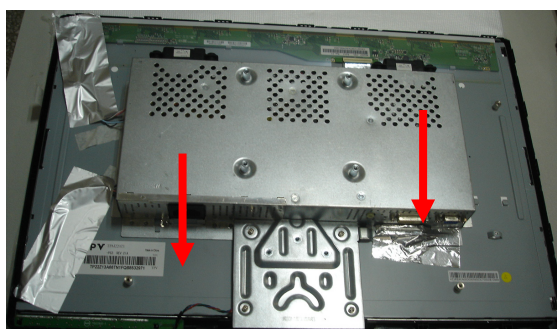
2. Plug the KEY BOARD CABLE.



3. Install KEY BOARD.

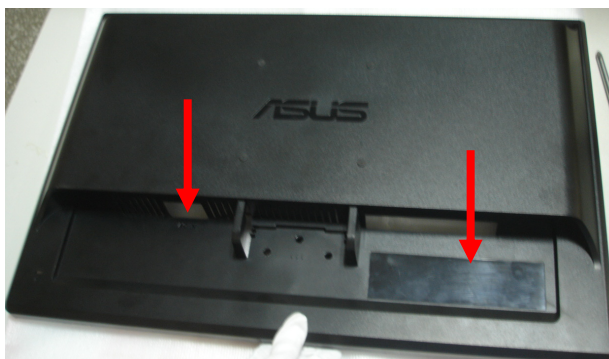


4. Assemble the PANEL ASSY with BEZEL.



Back Cover

1. Assemble BACK COVER, and press down along sides to lock latches.

**Stand Subsystem**

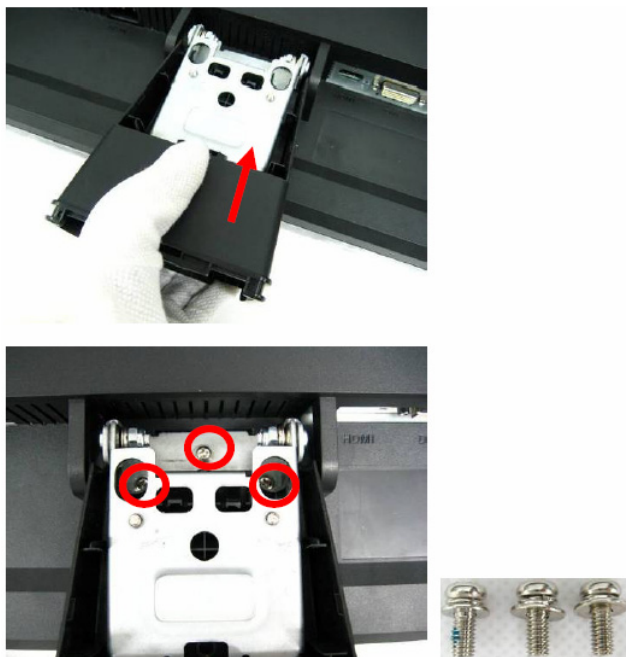
1. Install the HINGE,



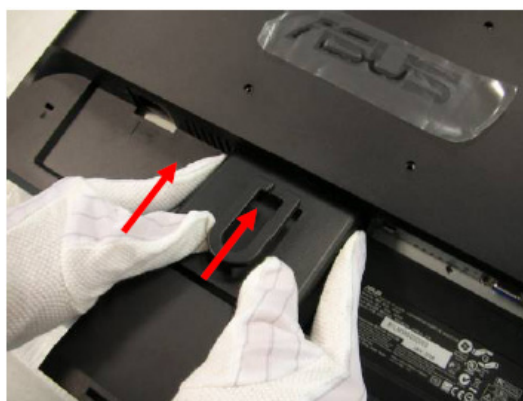
2. Mount 3 screws.



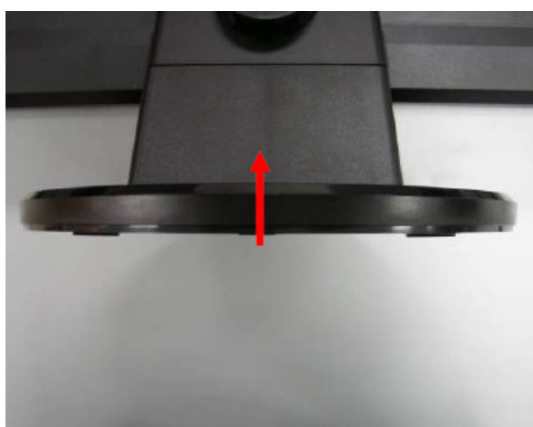
3. Mount STAND, and then secure 3 screws on STAND.



4. Cover STAND COVER, and then pull to lock it.



5. Mount BASE under STAND.



Note: The assembly way of VW224S is the the same as the VW224H's.

8. ISP Instruction

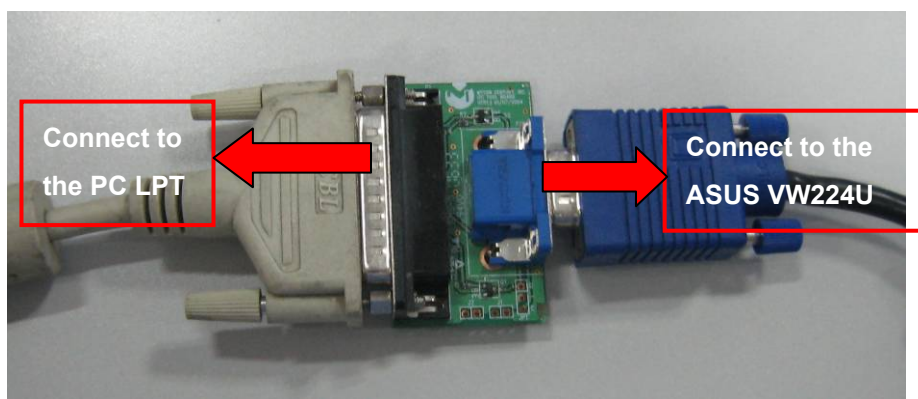
8.1 The tool for ISP

- 1) An i486 (or above) personal computer or compatible.
- 2) Microsoft operation system Windows 95/98/2000/XP.
- 3) "ISP_Tool V4.1.5" program
- 4) Software ISP SN Alignment kits

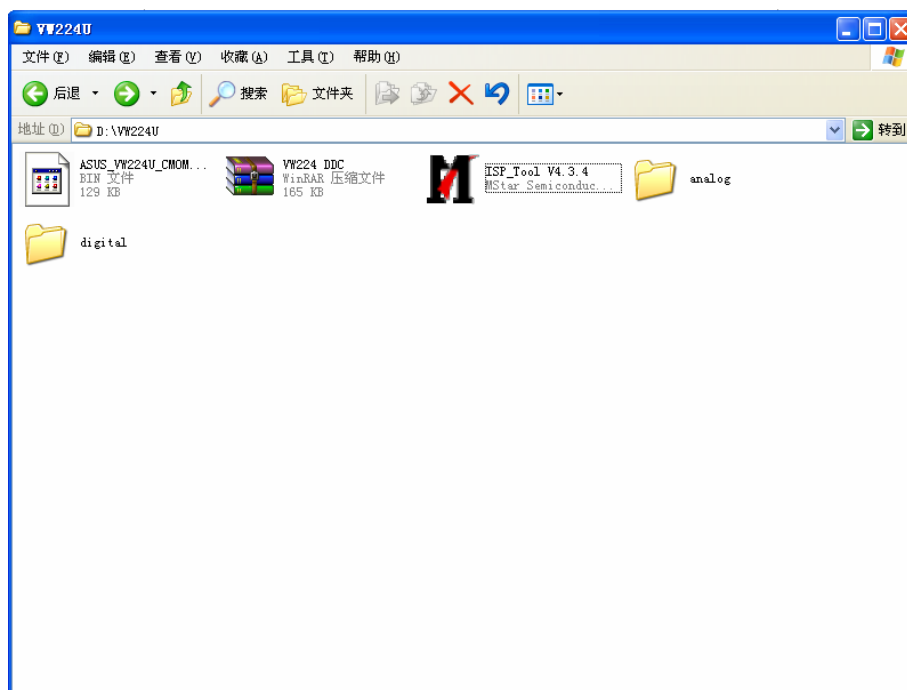
The kit contents:

- a) ISP BOARD x1
- b) Printer cablex1
- c) VGA CABLE X1

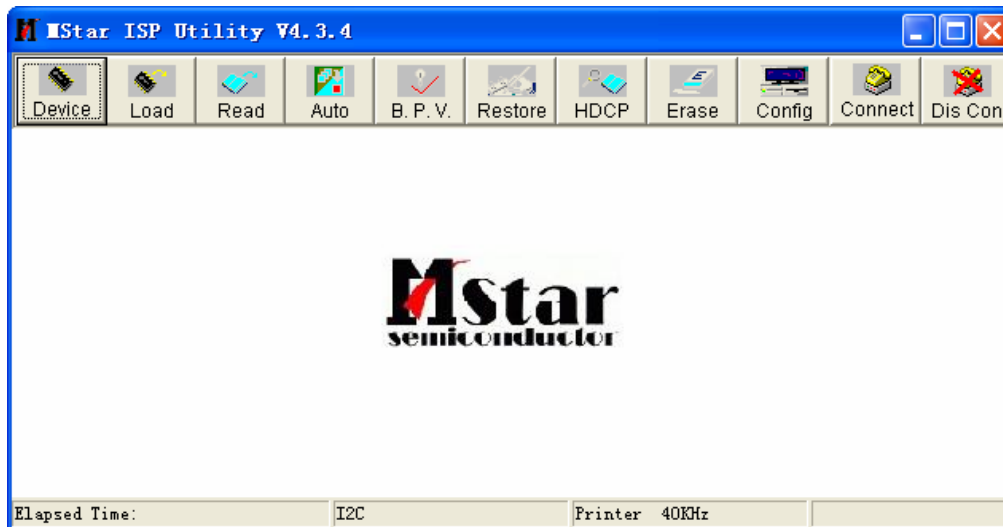
8.2 Connect the ISP board as follow:



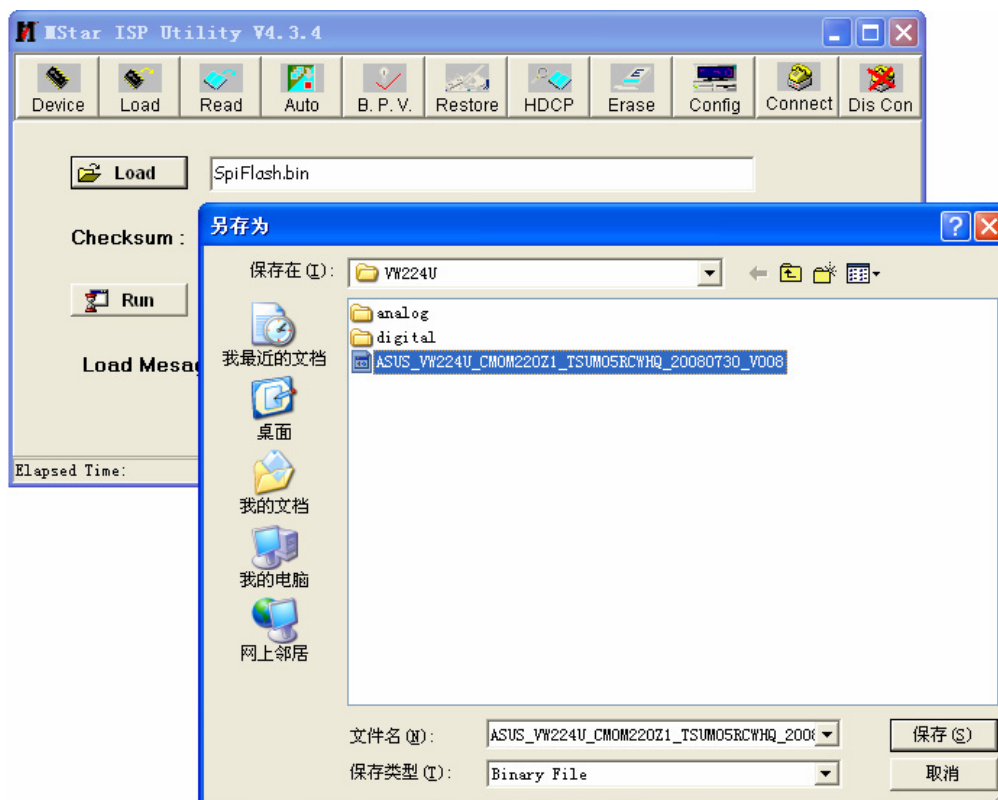
8.3 The process of ISP write is as follows:



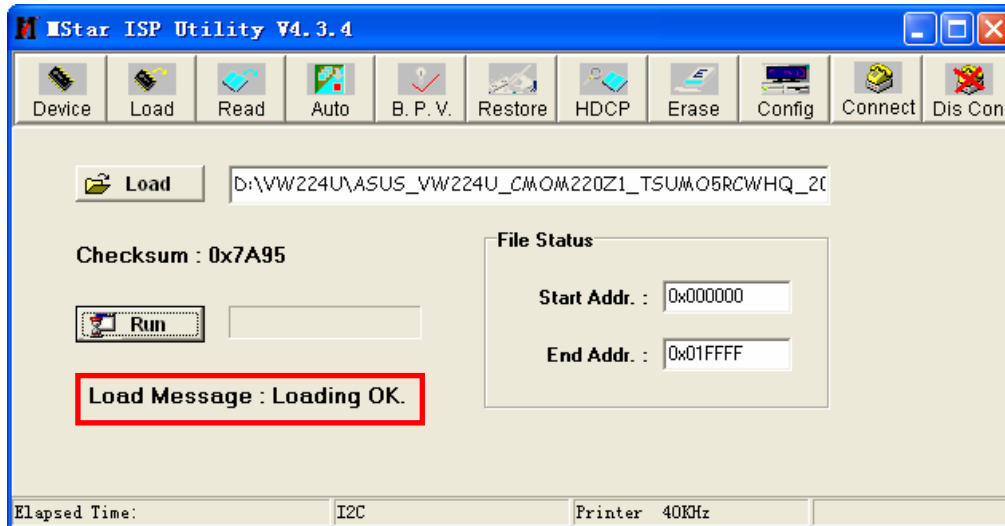
- a. Double-click  , running the program as follows:



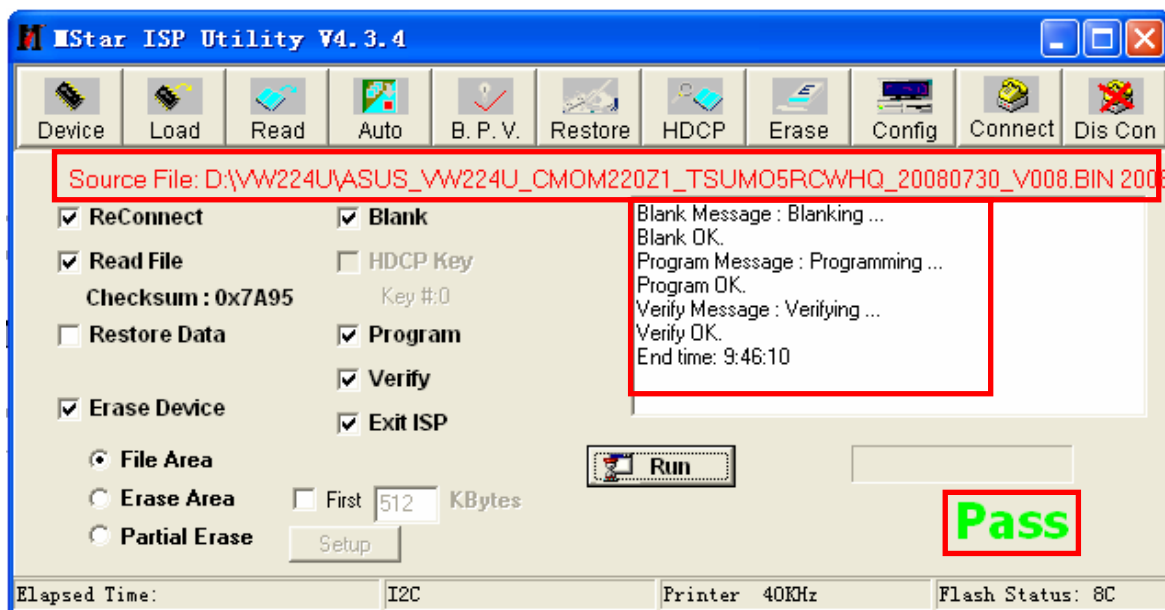
- b. Select sure, Click  icon, search the program "ASUS_VW224U_CMOM220Z1_TSUMO5RCWHQ_20080730_V008" and click save:



- c. Click  **Run** icon, it will show "Load Message: Loading OK."



- d. Click  **Auto** icon, then click  **Run**. If it burns successfully, it will show as the follow picture:



Note: The burning way of VW224S is the same as VW224H's.

9. DDC Instruction

9.1 General

DDC Data Re-programming

In case the main EEPROM with Software DDC which store all factory settings were replaced because a defect, repaired monitor' the serial numbers have to be re-programmed.

It is advised to re- soldered the main EEPROM with Software DDC from the old board onto the new board if circuit board have been replaced, in this case the DDC data does not need to be re-programmed.

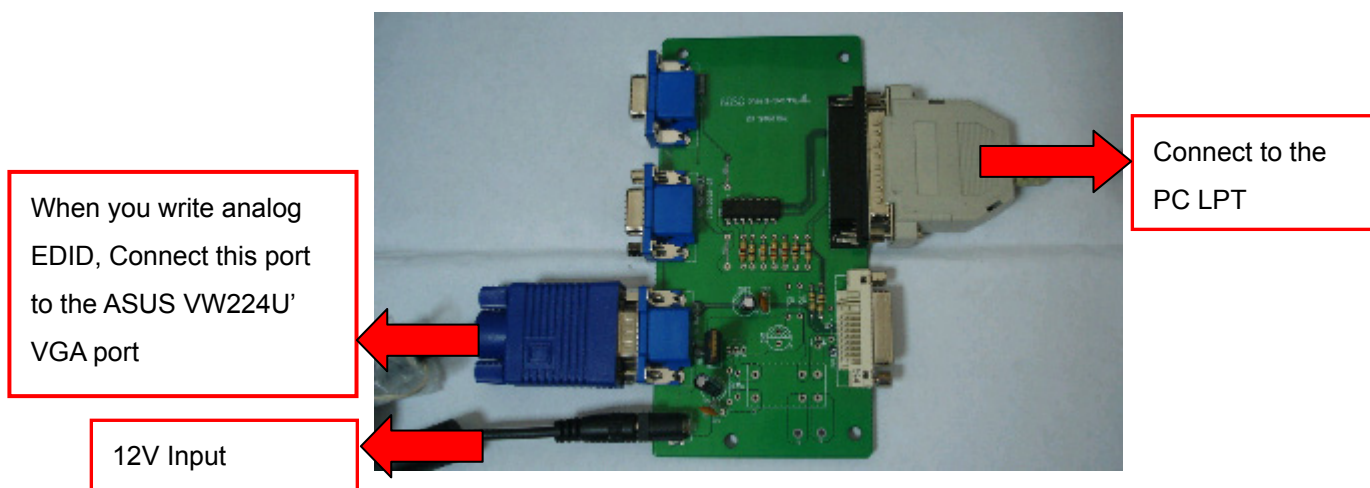
Additional information about DDC (Display Data Channel) may be obtained from Video Electronics Standards Association (VESA). Extended Display Identification Data (EDID) information may be also obtained from VESA.

1. An i486 (or above) personal computer or compatible.
2. Microsoft operation system Windows 95/98/2000/XP.
3. "PORT95NT.exe, WinDDC_ setup" program.
4. Software OSD SN Alignment kits

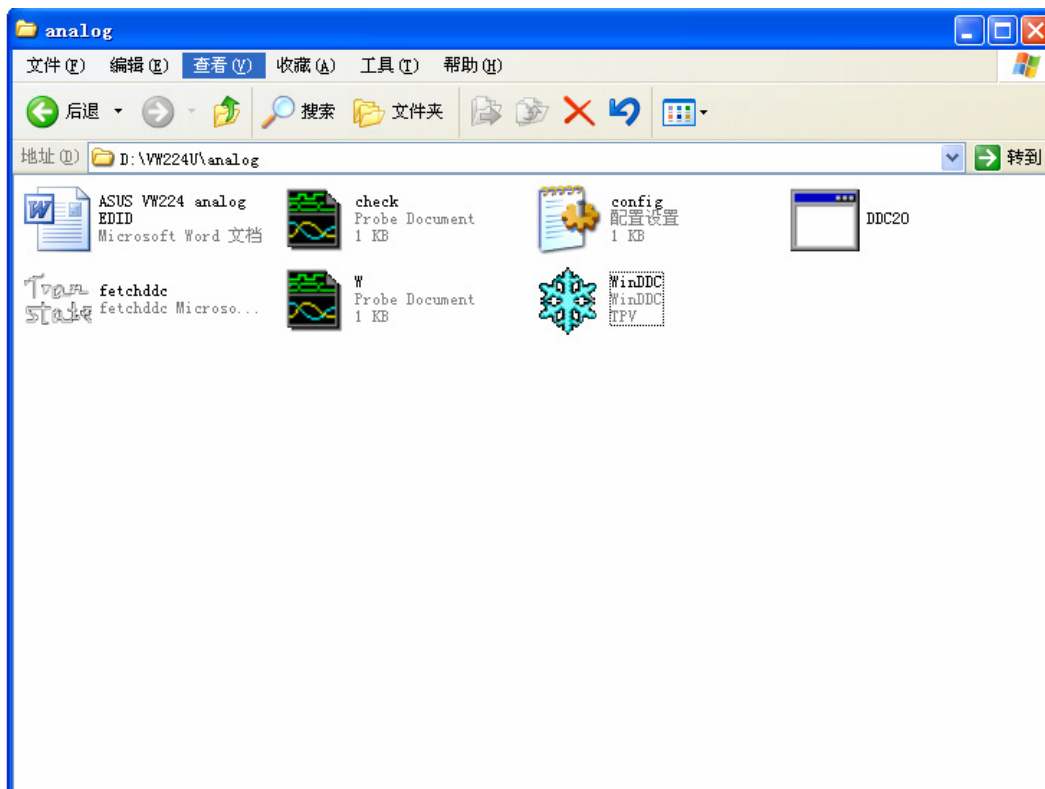
The kit contents:

- a) OSD SN BOARD x1
- b) Printer cable x1
- c) VGA cable x1
- d) Digital cable x1
- e) 12V DC power source

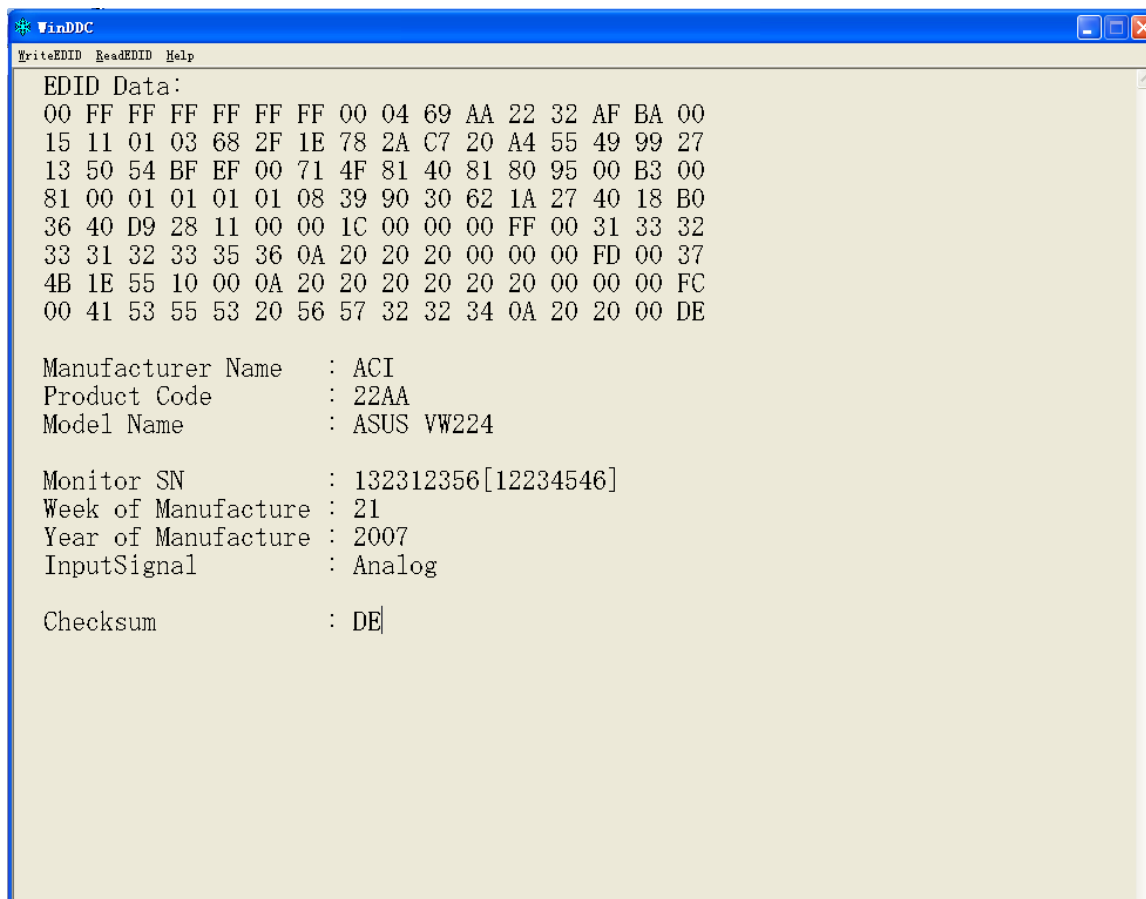
9.2 Connect the DDC board

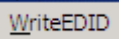


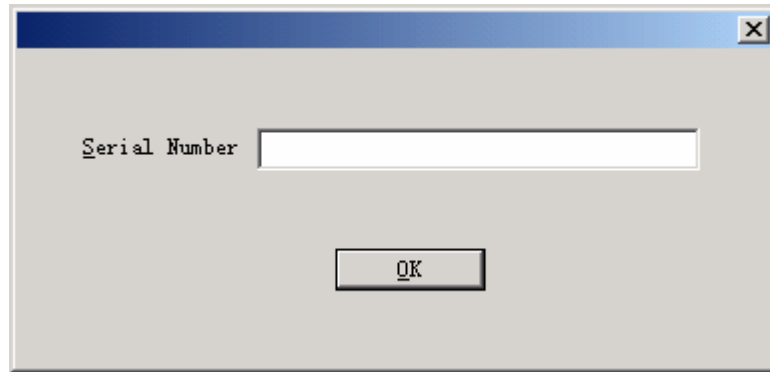
9.3 The process of analog DDC write is as follow:



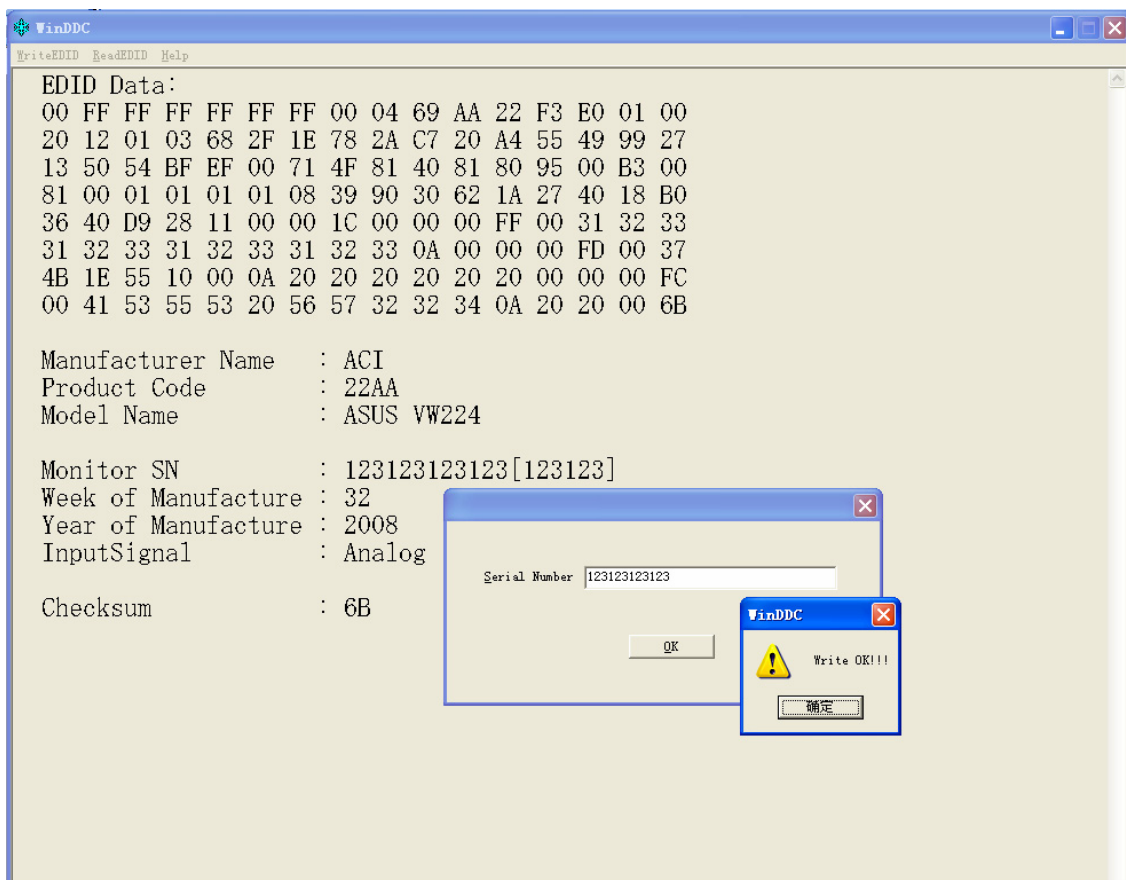
a. Double-click **WinDDC.exe**, appear as follow Figs :



b. Click .



c. Key 14 numbers in the Serial Number blank, then click "OK". Now analog DDC Write completes, as follow.



Note:

- The way of digital DDC write is the same as analog DDC write.
- The burning way of VW224S is the the same as the VW224H's.

VW224U Analog EDID

DATA

128 bytes EDID Data (Hex):

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15

```

0:  00 FF FF FF FF FF FF 00 04 69 AA 22 D3 86 03 00
16: 19 12 01 03 68 2F 1E 78 2A C7 20 A4 55 49 99 27
32: 13 50 54 BF EF 00 71 4F 81 40 81 80 95 00 B3 00
48: 81 00 01 01 01 01 08 39 90 30 62 1A 27 40 18 B0
64: 36 40 D9 28 11 00 00 1C 00 00 00 FF 00 32 33 31
80: 32 33 31 32 33 31 31 32 33 0A 00 00 00 FD 00 37
96: 4B 1E 55 10 00 0A 20 20 20 20 20 20 00 00 00 FC
112: 00 41 53 55 53 20 56 57 32 32 34 0A 20 20 00 EA

```

Decoded EDID data

<---Header--->

Header: 00 FF FF FF FF FF FF 00

<-x-Header-x->

<---Vendor/Product Identification--->

```

ID Manufacturer Name:  ACI
ID Product Code:       22AA
ID Serial Number:      000386d3
Week of Manufacture:   25
Year of Manufacture:   2008

```

<-x-Vendor/Product Identification-x->

<---EDID Structure Version/Revision--->

```

EDID Version#:        01
EDID Revision#:        03

```

<-x-EDID Structure Version/Revision-x->

<---Basic Display Parameters/Features--->

```

Video i/p definition:  Analog
Signal Level Standard: 0.700V/0.000V (0.700Vpp)
Setup:                 Blank-to-Black not expected
Separate Sync Support: Yes
Composite Sync Support: No
Sync. on green video supported: No
Serration of the Vsync.Pulse is not required.
Max. H. Image Size:    47cm.
Max. V. Image Size:    30cm.
Display Gamma:         2.2
DPMS Features, Active off: Yes.
Display Type:          R/G/B color display.
Preferred Timing Mode: Yes.

```

<---Basic Display Parameters/Features--->

<---Color Characteristics--->

Red x: 0.6435546875
Red y: 0.3320312500
Green x: 0.2861328125
Green y: 0.6005859375
Blue x: 0.1523437500
Blue y: 0.0761718750
White x: 0.3125000000
White y: 0.3310546875

<-x-Color Characteristics-x->

<---Established Timings--->

Established Timings 1: BF

-720x400 @70Hz VGA, IBM
-640x480 @60Hz VGA, IBM
-640x480 @67Hz Apple, Mac II
-640x480 @72Hz VESA
-640x480 @75Hz VESA
-800x600 @56Hz VESA
-800x600 @60Hz VESA

Established Timings 2: EF

-800x600 @72Hz VESA
-800x600 @75Hz VESA
-832x624 @75Hz Apple, Mac II
-1024x768 @60Hz VESA
-1024x768 @70Hz VESA
-1024x768 @75Hz VESA
-1280x1024 @75Hz VESA

Established Timings 3: 00

<-x-Established Timings-x->

<---Standard Timing Identification--->

-1152x864 @75
-1280x960 @60
-1280x1024 @60
-1440x900 @60
-1680x1050 @60
-1280x800 @60

<-x-Standard Timing Identification-x->

<---Detailed Timing Descriptions--->

Detailed Timing: 1680x1050 @ 60Hz

<-x-Detailed Timing Descriptions-x->

<---Detailed Timing Descriptions--->

Detailed Timing:FF (Monitor SN) '231231231123'

Detailed Timing:FD (Monitor limits)

Min. V. rate: 55Hz
Max. V. rate: 75Hz
Min. H. rate: 30 KHz
Max. H. rate: 85 KHz
Max. Pixel Clock: 160MHz

Detailed Timing: FC (Monitor Name) 'ASUS VW224'

<-x-Detailed Timing Descriptions-x->

Extension Flag: 00

Checksum: EA

VW224U DVI EDID DATA

128 bytes EDID Data (Hex):

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15

```

0:  00 FF FF FF FF FF FF 00 04 69 AA 22 B0 E1 01 00
16: 19 12 01 03 80 2F 1E 78 2A C7 20 A4 55 49 99 27
32: 13 50 54 BF EF 00 71 4F 81 40 81 80 95 00 B3 00
48: 81 00 01 01 01 01 08 39 90 30 62 1A 27 40 18 B0
64: 36 40 D9 28 11 00 00 1C 00 00 00 FF 00 33 31 32
80: 32 33 31 31 32 33 33 31 32 0A 00 00 00 FD 00 37
96: 4B 1E 55 10 00 0A 20 20 20 20 20 20 00 00 FC
112: 00 41 53 55 53 20 56 57 32 32 34 0A 20 20 00 9C

```

Decoded EDID data

<---Header--->

Header: 00 FF FF FF FF FF FF 00

<-x-Header-x->

<---Vendor/Product Identification--->

```

ID Manufacturer Name:  ACI
ID Product Code:       22AA
ID Serial Number:      0001e1b0
Week of Manufacture:   25
Year of Manufacture:   2008

```

<-x-Vendor/Product Identification-x->

<---EDID Structure Version/Revision--->

```

EDID Version#:        01
EDID Revision#:       03

```

<-x-EDID Structure Version/Revision-x->

<---Basic Display Parameters/Features--->

```

Video i/p definition:  Digital
Max. H. Image Size:   47cm.
Max. V. Image Size:   30cm.
Display Gamma:        2.2
DPMS Features, Active off:  Yes
Display Type:         R/G/B color display.
Preferred Timing Mode:  Yes

```

<---Basic Display Parameters/Features--->

<---Color Characteristics--->

```

Red x:      0.6435546875
Red y:      0.3320312500
Green x:    0.2861328125
Green y:    0.6005859375
Blue x:     0.1523437500
Blue y:     0.0761718750
White x:    0.3125000000
White y:    0.3310546875

```

<-x-Color Characteristics-x->

<---Established Timings--->

Established Timings 1: BF
-720x400 @70Hz VGA, IBM
-640x480 @60Hz VGA, IBM
-640x480 @67Hz Apple, Mac II
-640x480 @72Hz VESA
-640x480 @75Hz VESA
-800x600 @56Hz VESA
-800x600 @60Hz VESA

Established Timings 2: EF
-800x600 @72Hz VESA
-800x600 @75Hz VESA
-832x624 @75Hz Apple, Mac II
-1024x768 @60Hz VESA
-1024x768 @70Hz VESA
-1024x768 @75Hz VESA
-1280x1024 @75Hz VESA

Established Timings 3: 00

<-x-Established Timings-x->

<---Standard Timing Identification--->

-1152x864 @75
-1280x960 @60
-1280x1024 @60
-1440x900 @60
-1680x1050 @60
-1280x800 @60

<-x-Standard Timing Identification-x->

<---Detailed Timing Descriptions--->

Detailed Timing: 1680x1050 @ 60Hz

<-x-Detailed Timing Descriptions-x->

<---Detailed Timing Descriptions--->

Detailed Timing:FF (Monitor SN) '312231123312'

Detailed Timing:FD (Monitor limits)

Min. V. rate: 55Hz
Max. V. rate: 75Hz
Min. H. rate: 30 KHz
Max. H. rate: 85 KHz
Max. Pixel Clock: 160MHz

Detailed Timing: FC (Monitor Name) 'ASUS VW224'

<-x-Detailed Timing Descriptions-x->

Extension Flag: 00

Checksum: 9C

128 bytes EDID Data (Hex):

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15

0: 00 FF FF FF FF FF FF 00 04 69 AA 22 D3 86 03 00
16: 19 12 01 03 68 2F 1E 78 2A C7 20 A4 55 49 99 27
32: 13 50 54 BF EF 00 71 4F 81 40 81 80 95 00 B3 00
48: 81 00 01 01 01 01 08 39 90 30 62 1A 27 40 18 B0
64: 36 40 D9 28 11 00 00 1C 00 00 00 FF 00 32 33 31
80: 32 33 31 32 33 31 31 32 33 0A 00 00 00 FD 00 37
96: 4B 1E 55 10 00 0A 20 20 20 20 20 20 00 00 00 FC
112: 00 41 53 55 53 20 56 57 32 32 34 0A 20 20 00 EA

Decoded EDID data

<---Header--->

Header: 00 FF FF FF FF FF FF 00

<-x-Header-x->

<---Vendor/Product Identification--->

ID Manufacturer Name: ACI
ID Product Code: 22AA
ID Serial Number: 000386d3
Week of Manufacture: 25
Year of Manufacture: 2008

<-x-Vendor/Product Identification-x->

<---EDID Structure Version/Revision--->

EDID Version#: 01
EDID Revision#: 03

<-x-EDID Structure Version/Revision-x->

<---Basic Display Parameters/Features--->

Video i/p definition: Analog
Signal Level Standard: 0.700V/0.000V(0.700Vpp)
Setup: Blank-to-Black not expected
Separate Sync Support: Yes
Composite Sync Support: No
Sync. on green video supported: No
Serration of the Vsync. Pulse is not required.
Max. H. Image Size : 47cm.
Max. V. Image Size : 30cm.
Display Gamma: 2.2
DPMS Features, Active off: Yes.
Display Type: R/G/B color display.
Preferred Timing Mode: Yes.

<---Basic Display Parameters/Features--->

<---Color Characteristics--->

Red x: 0.6435546875
Red y: 0.3320312500
Green x: 0.2861328125
Green y: 0.6005859375
Blue x: 0.1523437500
Blue y: 0.0761718750
White x: 0.3125000000
White y: 0.3310546875

<-x-Color Characteristics-x->

<---Established Timings--->

Established Timings 1: BF

- 720x400 @70Hz VGA,IBM
- 640x480 @60Hz VGA,IBM
- 640x480 @67Hz Apple,Mac II
- 640x480 @72Hz VESA
- 640x480 @75Hz VESA
- 800x600 @56Hz VESA
- 800x600 @60Hz VESA

Established Timings 2: EF

- 800x600 @72Hz VESA
- 800x600 @75Hz VESA
- 832x624 @75Hz Apple,Mac II
- 1024x768 @60Hz VESA
- 1024x768 @70Hz VESA
- 1024x768 @75Hz VESA
- 1280x1024 @75Hz VESA

Established Timings 3: 00

<-x-Established Timings-x->

<---Standard Timing Identification--->

- 1152x864 @75
- 1280x960 @60
- 1280x1024 @60
- 1440x900 @60
- 1680x1050 @60
- 1280x800 @60

<-x-Standard Timing Identification-x->

<---Detailed Timing Descriptions--->

Detailed Timing: 1680x1050 @ 60Hz.

<-x-Detailed Timing Descriptions-x->

<---Detailed Timing Descriptions--->

Detailed Timing:FF (Monitor SN) '231231231123'

Detailed Timing:FD (Monitor limits)

- Min. V. rate: 55Hz
- Max. V. rate: 75Hz
- Min. H. rate: 30KHz
- Max. H. rate: 85KHz
- Max. Pixel Clock: 160MHz

Detailed Timing: FC (Monitor Name) 'ASUS VW224'

<-x-Detailed Timing Descriptions-x->

Extension Flag: 00

Checksum: EA

10. Color/White balance Adjustment

Approximately 30 minutes should be allowed for warm up before proceeding white balance adjustment.

Before started adjust white balance , please set the Chroma-7120 MEM Channel 3 to Warm (6500K) color, MEM Channel 4 to Normal (7500K) color, MEM Channel 9 to Cool (9300K) color , and MEM Channel 10 to sRGB color (our Warm color parameter is $x = 313 \pm 25$, $y = 329 \pm 25$, $Y=200\text{cd/m}^2(\text{typ})$; Normal color parameter is $x = 299 \pm 20$, $y = 315 \pm 20$, $Y=200\text{cd/m}^2(\text{typ})$; Cool color parameter is $x = 283 \pm 25$, $y = 297 \pm 25$, $Y \geq 170\text{cd/m}^2(\text{typ})$; sRGB color parameter is $x = 313 \pm 25$, $y = 329 \pm 25$, $Y = 160 \pm 10\text{cd/m}^2$)

How to setting MEM channel you can reference to chroma 7120 user guide or simple use “ SC” key and “ NEXT” Key to modify xyY value and use “ID” key to modify the TEXT description Following is the procedure to do white-balance adjust .

2. Setting the color temp. you want

A. MEM.CHANNEL 3 (Warm color):

Warm color temp.parameter is $x = 313 \pm 25$, $y = 329 \pm 25$, $Y=200\text{cd/ m}^2(\text{typ})$

B. MEM.CHANNEL 4 (Normal color):

Normal color temp.parameter is $x = 299 \pm 25$, $y = 315 \pm 25$, $Y=200\text{cd/ m}^2(\text{typ})$

C. MEM.CHANNEL 9(Cool color):

Cool color temp. parameter is $x = 283 \pm 25$, $y = 297 \pm 25$, $Y \geq 170\text{cd/m}^2(\text{typ})$

D. MEM.CHANNEL 10 (sRGB color):

sRGB color temp. parameter is $x = 313 \pm 25$, $y = 329 \pm 25$, $Y = 160 \pm 10\text{cd/m}^2$

3. Into Factory mode of ASUS VW224:

Press the MENU button, pull out the power cord, and then plug the power cord. Then the factory OSD will be at the left top of the panel.

4. Bias adjustment:

Set the **Contrast**  to 50; Adjust the **Brightness**  to 80.

5. Gain adjustment:

Move cursor to “-F-” and press MENU key

A. Adjust Warm (6500K) color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press “MODE” button)
2. Switch the MEM.channel to Channel 3 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show $x = 313 \pm 25$, $y = 329 \pm 25$, $Y=200\text{cd/m}^2(\text{typ})$
4. Adjust the RED on factory window until chroma 7120 indicator reached the value $R=100$
5. Adjust the GREEN on factory window until chroma 7120 indicator reached the value $G=100$
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value $B=100$
7. Repeat above procedure (item 4, 5, 6) until chroma 7120 RGB value meet the tolerance $=100 \pm 2$

B. Adjust Normal (7500K) color-temperature

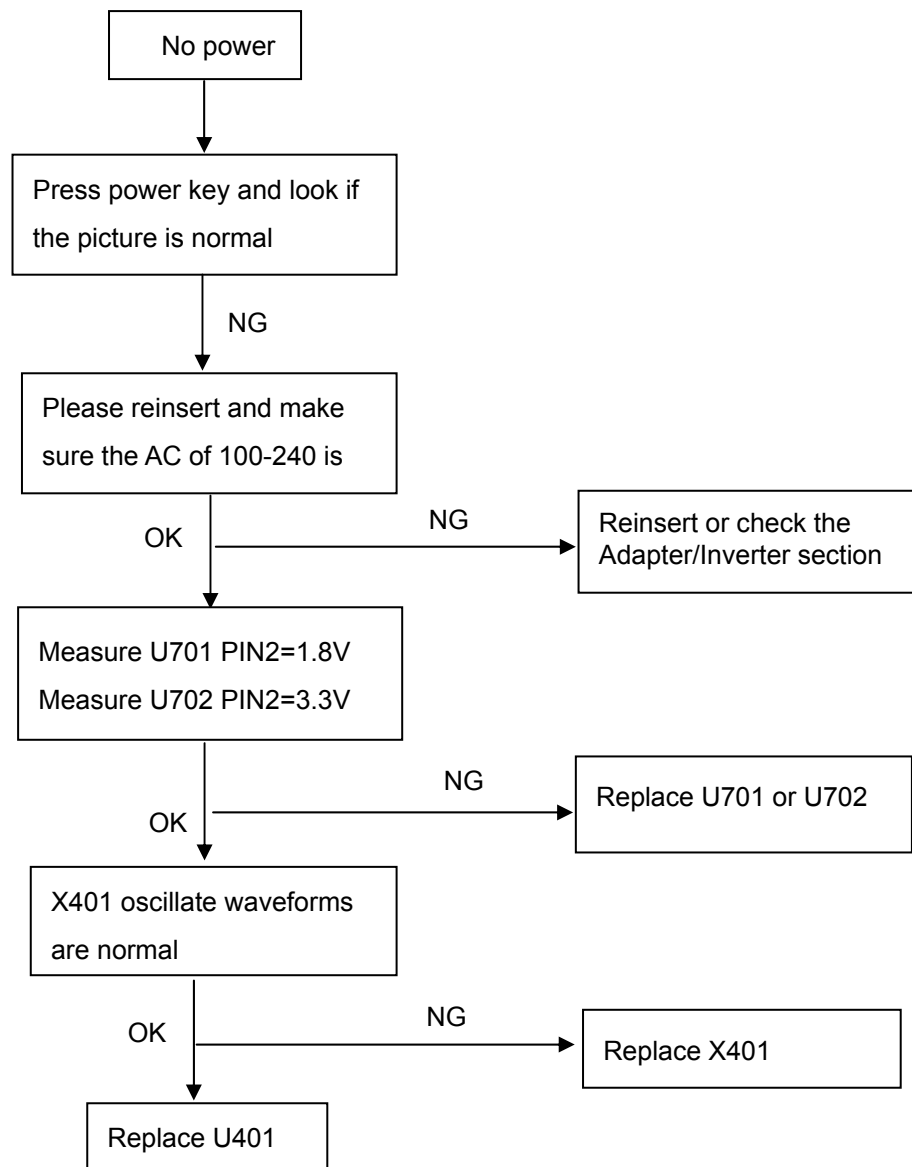
1. Switch the chroma-7120 to **RGB-Mode** (with press “MODE” button)
2. Switch the MEM.channel to Channel 4(with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show $x = 299 \pm 25$, $y = 315 \pm 25$, $Y=200\text{cd/m}^2(\text{typ})$

4. Adjust the RED on factory window until chroma 7120 indicator reached the value $R=100$
 5. Adjust the GREEN on factory window until chroma 7120 indicator reached the value $G=100$
 6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value $B=100$
 7. Repeat above procedure (item 4, 5, 6) until chroma 7120 RGB value meet the tolerance $=100\pm2$
- C. Adjust Cool (9300K) color-temperature
1. Switch the Chroma-7120 to **RGB-Mode** (with press "MODE" button)
 2. Switch the MEM. Channel to Channel 9 (with up or down arrow on chroma 7120)
 3. The LCD-indicator on chroma 7120 will show $x = 283 \pm 25$, $y = 297 \pm 25$, $Y \geq 170 \text{cd/m}^2$ (typ)
 4. Adjust the RED on factory window until chroma 7120 indicator reached the value $R=100$
 5. Adjust the GREEN on factory window until chroma 7120 indicator reached the value $G=100$
 6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value $B=100$
 7. Repeat above procedure (item 4, 5, 6) until chroma 7120 RGB value meet the tolerance $=100\pm2$
- D. Adjust sRGB color-temperature
1. Switch the chroma-7120 to **RGB-Mode** (with press "MODE" button)
 2. Switch the MEM.channel to Channel 10 (with up or down arrow on chroma 7120)
 3. The LCD-indicator on chroma 7120 will show $x = 313 \pm 25$, $y = 329 \pm 25$, $Y = 160 \pm 10 \text{cd/m}^2$
 4. Adjust the RED on factory window until chroma 7120 indicator reached the value $R=100$
 5. Adjust the GREEN on factory window until chroma 7120 indicator reached the value $G=100$
 6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value $B=100$
 7. Repeat above procedure (item 4, 5, 6) until chroma 7120 RGB value meet the tolerance $=100\pm2$
- E. Turn the Power-button off to quit from factory mode.

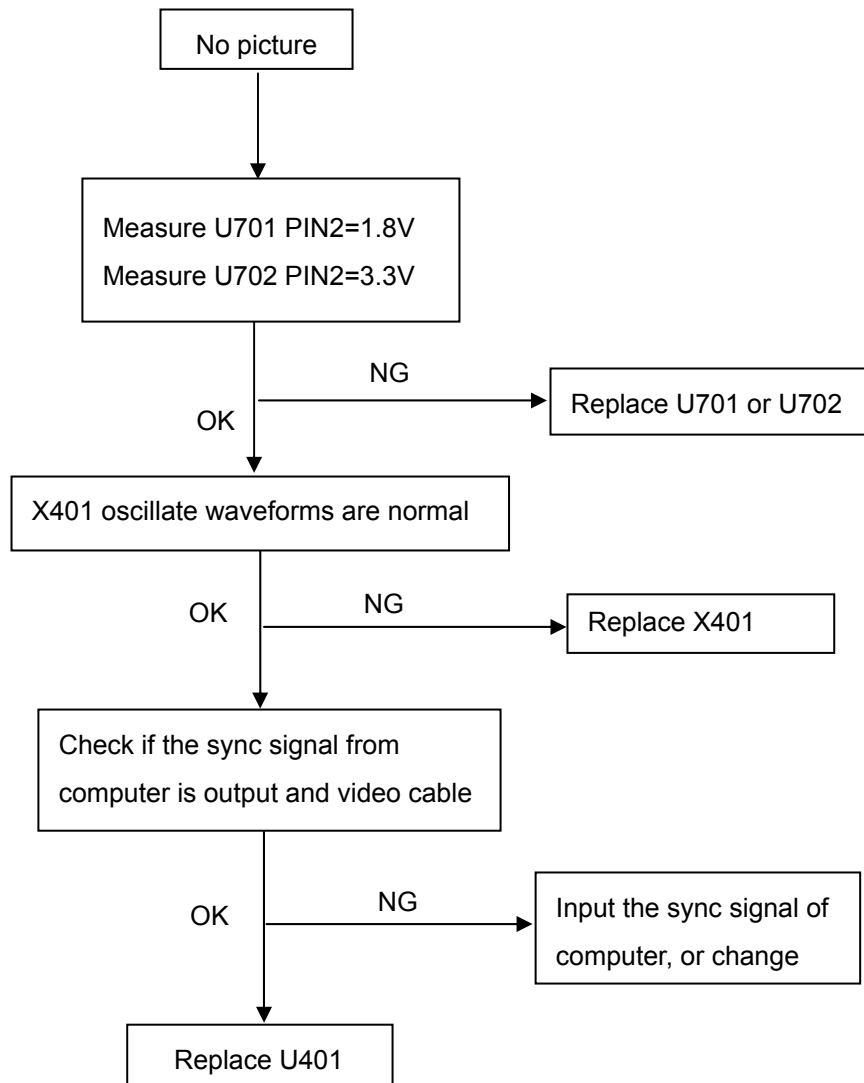
11. Trouble Shooting

11.1 Main Board

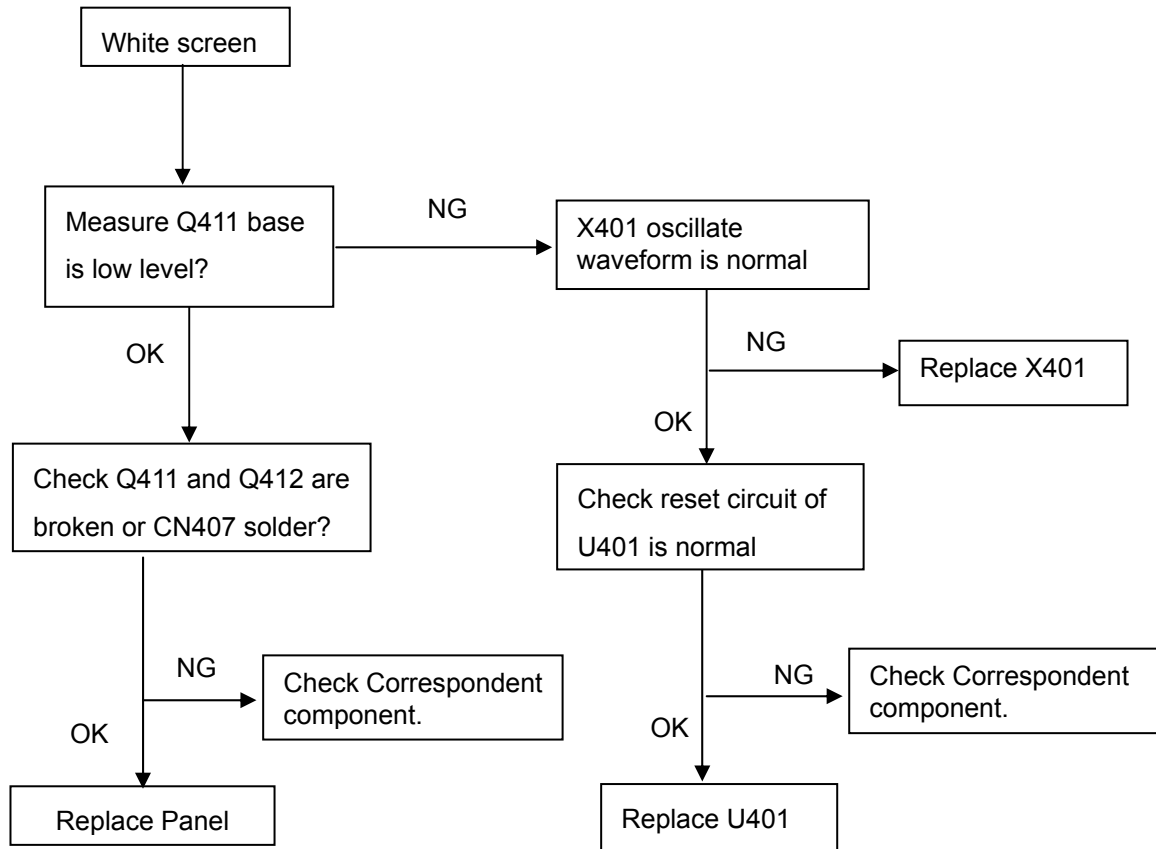
(1). No Power



(2). No Picture

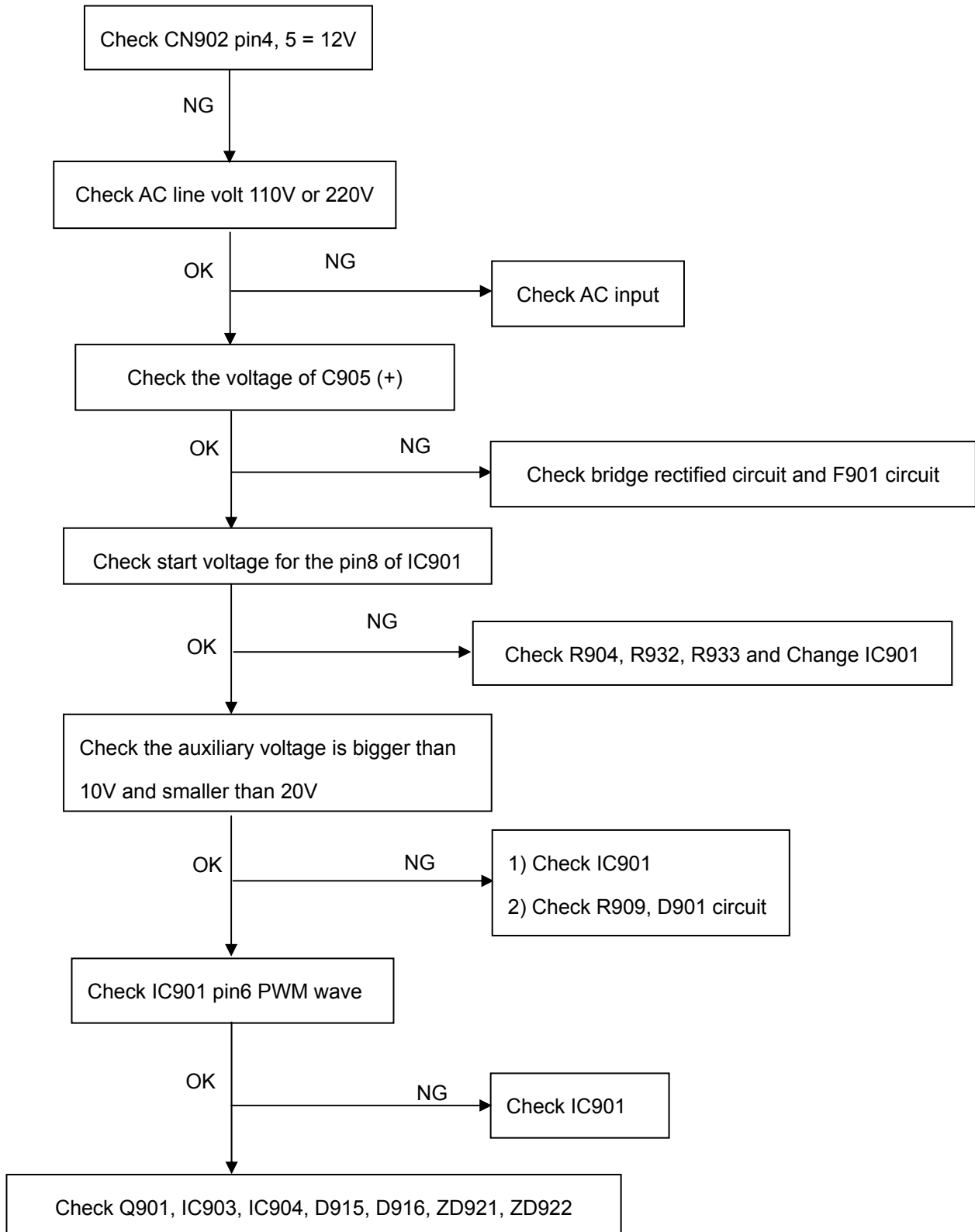


(3). White screen

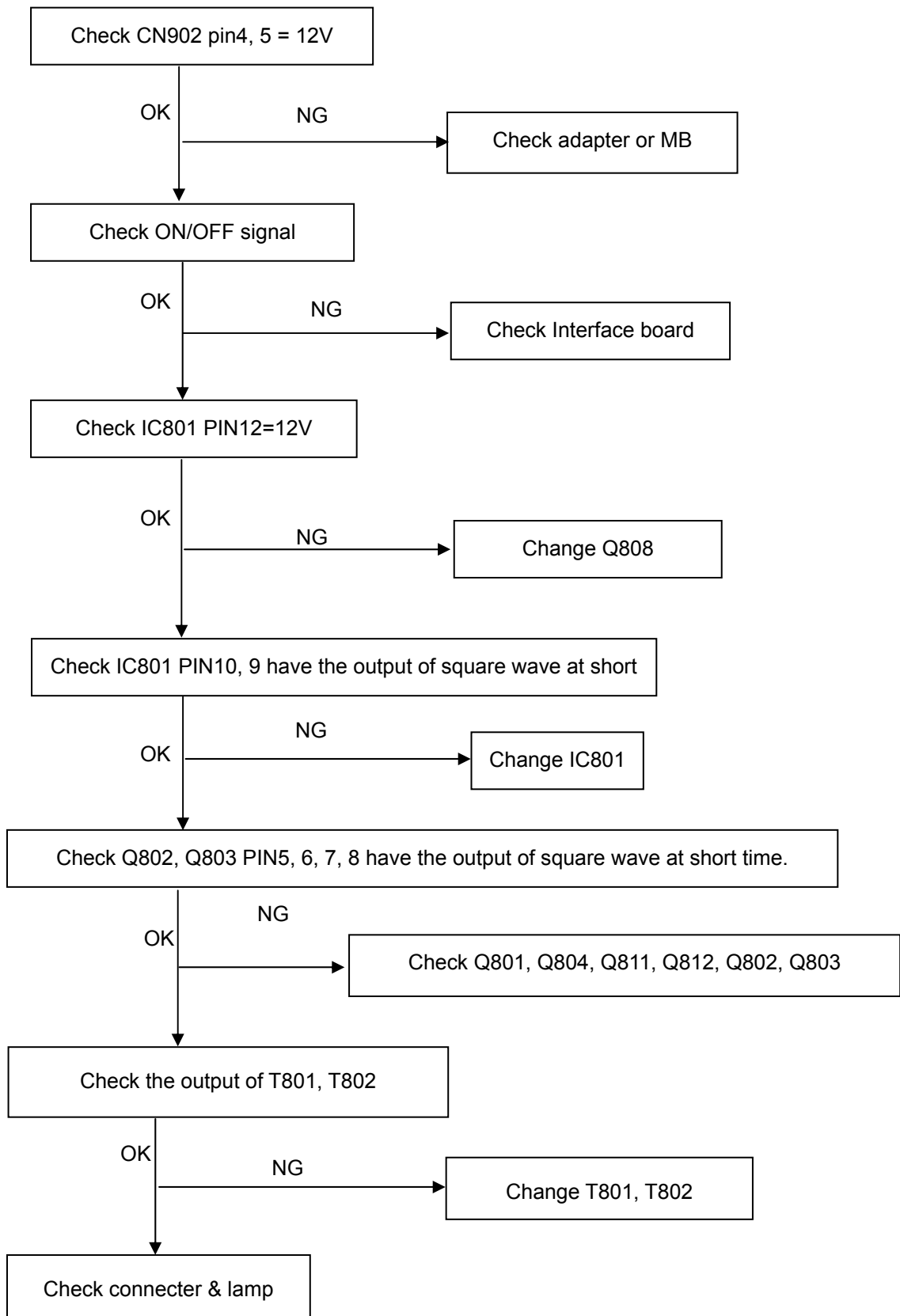


11.2 Power/Inverter Board

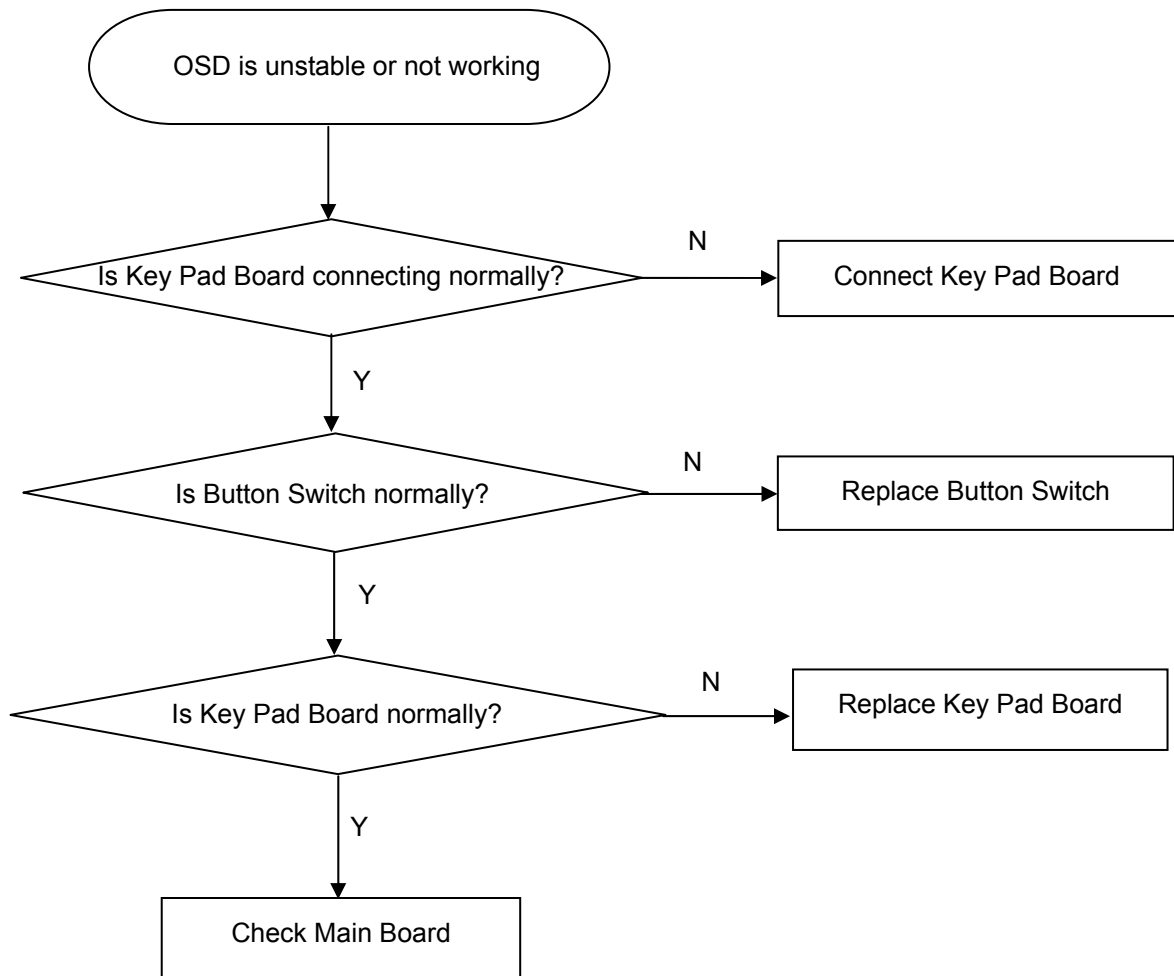
1.) No power



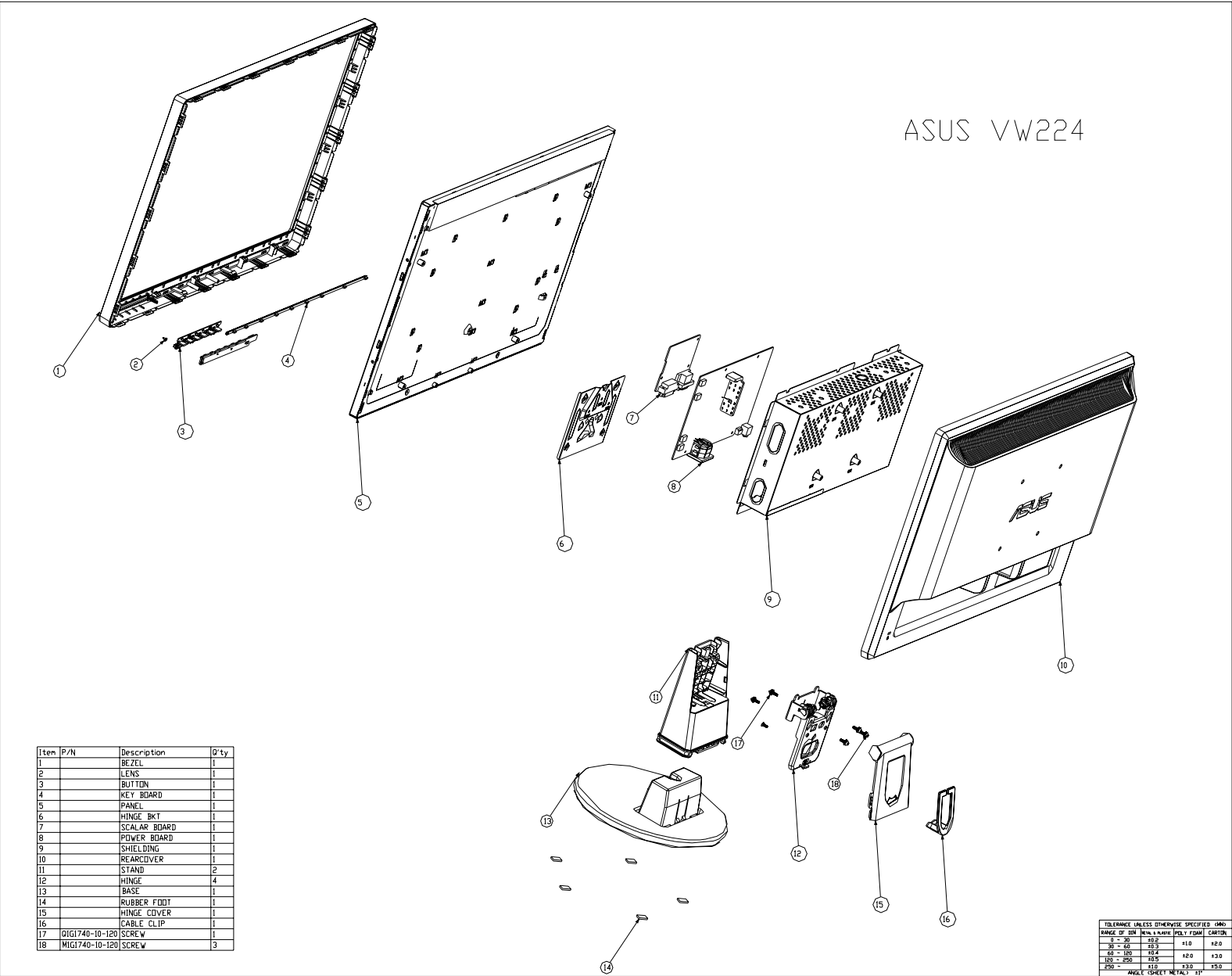
2.) W / LED, No Backlight



11.3 Key Board



12. Exploded View



13. BOM list

VW224U TCR2MPNCWYUSDI

Location	Part No.	Description	Remark
	040G 58160811A	GREEN DOT LABEL	
	040G 581680 1A	WARRANTY LABEL	
	044GH600 1	HANDLE 2	
	050G 600 1 W	WHITE STRAP	
	050G 600 4	HANDLE 1	
	052G 1150 C	INSULATING TAPE	
	052G 1185 49	ASUS TAPE 73-D024084	
	052G 1186	SMALL TAPE	
	052G 1209 A	200MINIUM TAPE	
	052G 1211 A	CONDUCTIVE TAPE 55MM *45MM *0.08MM	
	052G 1211 B	AL TAPE	
	052G6019 1	INSULATING TAPE	
	070GHDCP500HDC MSTAR-HDCP	HDCP CODE	
E07801	078G 322 11 V	SPK 8 OHM 1.5W 43X18MM VECO	2nd source
E07801	078G 322 11 Y	SPK 8 OHM 1.5W 43X18MM SUNLINK	
E08902	089G 728CAA DB	D-SUB	2nd source
E08902	089G 728GAA DB	D-SUB	
E08902	089G 728HAA DB	D-SUB	2nd source
E08903	089G1748CAA AC	SIGNAL CABLE DVI COMLINK	
E08903	089G1748GAA AC	SIGNAL CABLE DVI GREATLAND	2nd source
E08903	089G1748HAA AC	DVI CABLE	
E08907	089G176J 55 1A	FFC CABLE 55PIN	2nd source
E08907	089G176W 55 1A	FFC CABLE 55PIN	
E08901	089G404A18N IS	POWER CORD/32E1818018	2nd source
E08901	089G404A18N YH	POWER CORD(32E1818018/32-D022217)	
E08911	089G410A18N IS	POWER CORD 32E1818020(SHARE WITH TPV)	
E08911	089G410A18N LS	POWER CORD	2nd source
E08921	089G412A18NIS3	POWER CORD/32E1818058(SHARE WITH TPV)	2nd source
E08921	089G412A18NYH3	POWER CORD	
E09502	095G8014 6D698	WIRE HARNESS 6P(PH)-6P(A1253 HR)	2nd source
E09502	095G8014 6W698	WIRE HARNESS 6P(PH)-6P(A1253 HR)	2nd source
E09502	095G8014 6X698	WIRE HARNESS 6P(PH)-6P(A1253 HR)	
	0M1G1730 6120	SCREW,42-D020523	
	0Q1G 330 5120	SCREW 42-D003574	
	705GQ734554	22" LCD STAND COVER-BASE ASS'Y	
	0M1G1740 10120	SCREW 42A9940008	

	A34G0576ADJ 1B	STAND	
	A34G0577ADJ 1B 20	BASE	
	A37G0063 1	HINGE ASS'Y	
	Q12G6600 6	FOOT	
	705GQ734555	22" LCD HINGE COVER ASS'Y	
	0Q1G 130 8 47 CR3	SCREW	
	A34G0574ADJ 1B 39	HINGE COVER	
	A34G0575ADJ 1B 19	CABLE CLIP	
	705GQ834263	22" LCD REAR COVER ASS'Y	
	A34G0761ADJ 3B 30	REAR COVER(22")	
	Q12G6300 46	SCREW CAP VESA	
	705GQ834264	22" LCD BEZEL ASS'Y	
	A33G0322 1 1C	LENS	
	A33G0323ADJ 1L	FUNCTION KEY	
	A34G0573ADJ 1B 19	STRIP	
	A34G0759ADJA1B 30	BEZEL 22	
	750GLV220KZ141N000	PANEL TPM220Z1-PS3 C1A FQ TPV	
	756GQ8CB CA007	MAIN BOARD-CBPCRMVA1Q1	
SMTC-U402	100GCMCC003N11	MCU ASS'Y-056G1133713	
	A15G0351201	HINGE BKT	
	AM1G1740 10125	SCREW	
	AUPC8QU3	AUDIO BOARD G2837-1-2-X-2-080707	
CN603	033G3802 4	WAFER EH-4	
CN605	033G3802 6	WAFER	
U601	056G 616 40	IC EUA6021A1IT1 2.5W*2 DIP-20	
CN601	088G 30214K	PHONE JACK 5PIN	
R601	061G 60210352T	CFR 10KOHM +-5% 1/6W	
R602	061G 60210352T	CFR 10KOHM +-5% 1/6W	
R603	061G 60210352T	CFR 10KOHM +-5% 1/6W	
R604	061G 60210352T	CFR 10KOHM +-5% 1/6W	
R605	061G 60210352T	CFR 10KOHM +-5% 1/6W	
R611	061G 60210352T	CFR 10KOHM +-5% 1/6W	
R606	061G 60220352T	CFR 20K OHM+-5% 1/6W	
R607	061G 60220352T	CFR 20K OHM+-5% 1/6W	
C610	065G 444102 5T	1000PF 10% 50V CERAMIC	
C611	065G 444102 5T	1000PF 10% 50V CERAMIC	
C601	065G250K4742GT	CAP JC 0.47UF K 25V X7R	
C602	065G250K4742GT	CAP JC 0.47UF K 25V X7R	
C603	065G250K4742GT	CAP JC 0.47UF K 25V X7R	
C605	065G250K4742GT	CAP JC 0.47UF K 25V X7R	

C606	065G250K4742GT	CAP JC 0.47UF K 25V X7R	
C607	065G250K4742GT	CAP JC 0.47UF K 25V X7R	
C608	067G 3051097PT	105°C 1UF +-20% 50V	
C609	067G 3051097PT	105°C 1UF +-20% 50V	
C604	067G215B101 3T	CAP 105°C 100UF M 16V	
FB601	071G 55 23	BEAD	
J602	095G 90 23	JUMPER	
J603	095G 90 23	JUMPER	
J604	095G 90 23	JUMPER	
J601	095G 90 23	JUMPER	
	715G2837 1 2	AUDIO BOARD PCB 25*109.5MM 14PCS/PNLS FR-1	
	Q90G6258 2	HEAT SINK	
	040G 45762412B	CBPC LABEL	
CN403	033G3802 6	WAFER	
CN701	033G3802 9	WAFER 9P RIGHT ANELE PITCH	
R702	061G152M339 64	CHIPR 3.3 OHM +-5% 2W	
C408	067G305V100 3	105°C 10UF +-20% 16V	
C418	067G305V100 3	105°C 10UF +-20% 16V	
C403	067G305V100 3	105°C 10UF +-20% 16V	
C703	067G305V101 3	105°C 100UF M 16V	
C461	067G305V101 3	105°C 100UF M 16V	
C712	067G305V101 3	105°C 100UF M 16V	
CN405	088G 35315F H	D-SUB 15PIN	
CN405	088G 35315F HD	D-SUB CONN F ATTACHED SCREW	2nd source
CN406	088G 35424F C	DVI 24PIN CONN F WITH SCREWS	
CN406	088G 35424F D	DVI 24PIN CONN F ATTACHED SCREW	2nd source
X401	093G 2253B H	XAT01431AFI1H-3OHX AT-49 14.31818MHZ	
CN407	033G801955Y H HC	0.5 PITCH 55P SMT	
U401	056G 562199	IC TSUMO5RCWHQ-LF PQFP-128	
U701	056G 563113	IC G1117-18T63UF 1A/1.8V SOT-223	
U702	056G 563114	IC G1117-33T63UF 1A/3.3V SOT-223	
U701	056G 56327A	IC AP1117E18LA SOT223-3L ANACHIP	
U702	056G 585 4A	IC AP1117E33L-13	
U404	056G1133 34	M24C02-WMN6TP	
U405	056G1133 34	M24C02-WMN6TP	
U403	056G1133 56	M24C16-WMN6TP	
U403	056G1133 89	IC AF24BC16-SI 16K SOIC-8	
U402	056G1133713	IC PM25LV010A-100SCE SOIC-8	
Q402	057G 417 4	PMBS3904/PHILIPS-SMT(04)	
Q406	057G 417 4	PMBS3904/PHILIPS-SMT(04)	

Q703	057G 417 4	PMBS3904/PHILIPS-SMT(04)	
Q401	057G 417 6	PMBS3906/PHILIPS-SMT(06)	
	057G 417 6	PMBS3906/PHILIPS-SMT(06)	
Q411	057G 417 6	PMBS3906/PHILIPS-SMT(06)	
Q402	057G 417511	MMBT3904	
Q406	057G 417511	MMBT3904	
Q703	057G 417511	MMBT3904	
Q401	057G 417512	MMBT3906	
Q403	057G 417512	MMBT3906	
Q411	057G 417512	MMBT3906	
Q412	057G 763 1	A03401 SOT23 BY AOS(A1)	
Q412	057G 763501	FET AM2321P ANALOG POWER	
R407	061G0402000	RST CHIPR 0 OHM +-5% 1/16W	
R410	061G0402000	RST CHIPR 0 OHM +-5% 1/16W	
R462	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R463	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R464	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R465	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R466	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R467	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R468	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R469	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R411	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R418	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R420	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R427	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R428	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R429	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R441	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R442	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R443	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R453	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R454	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R455	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R456	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R483	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R488	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R499	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R470	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W	

R447	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W	
R446	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W	
R445	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W	
R457	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R452	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R431	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R426	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R425	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R424	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R415	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R413	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R408	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R406	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R404	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R461	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R487	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R489	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R490	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R493	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R494	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R497	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R708	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R711	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R458	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W	
R449	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W	
R448	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W	
R405	061G0402223	RST CHIPR 22 KOHM +-5% 1/16W	
R403	061G0402390 0F	RST CHIP 390R 1/16W 1%	
R475	061G0402390 1F	RST CHIPR 3.9KOHM +-1% 1/16W	
R474	061G0402390 1F	RST CHIPR 3.9KOHM +-1% 1/16W	
R419	061G0402471	RST CHIPR 470 OHM +-5% 1/16W	
R421	061G0402471	RST CHIPR 470 OHM +-5% 1/16W	
R437	061G0402471	RST CHIPR 470 OHM +-5% 1/16W	
R422	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R423	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R433	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R444	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R450	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R451	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R459	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	

R460	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R496	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R712	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R495	061G0402513	RST CHIP 51K 1/16W 5%	
R434	061G0402560	RST CHIP 56R 1/16W 5%	
R435	061G0402560	RST CHIP 56R 1/16W 5%	
R436	061G0402560	RST CHIP 56R 1/16W 5%	
R438	061G0402750	RST CHIPR 75 OHM +-5% 1/16W	
R439	061G0402750	RST CHIPR 75 OHM +-5% 1/16W	
R440	061G0402750	RST CHIPR 75 OHM +-5% 1/16W	
FB401	061G0603000	RST CHIPR 0 OHM +-5% 1/10W	
FB410	061G0603000	RST CHIPR 0 OHM +-5% 1/10W	
FB411	061G0603000	RST CHIPR 0 OHM +-5% 1/10W	
FB412	061G0603000	RST CHIPR 0 OHM +-5% 1/10W	
R491	061G0805391	390 OHM 1/10W 1%	
C435	065G0402102 32	1000PF +-10% 50V X7R	
C428	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C427	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C426	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C422	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C411	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C412	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C413	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C414	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C415	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C416	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C419	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C420	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C454	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C456	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C457	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C458	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C462	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C465	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C701	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C704	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C709	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C711	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C713	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C714	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	

C453	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C429	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C430	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C439	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C440	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C441	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C445	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C447	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C448	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C449	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C450	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C451	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C452	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C401	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C402	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C404	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C405	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C406	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C407	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C409	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C410	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C463	065G0402105 A5	CAP 0402 1UF K 10V X5R	
C443	065G0402221 31	CAP:CER 220PF 5% 50V SM	
C446	065G0402224A5T	MLCC 0402 0.22UF K 10V X	
C444	065G0402224A5T	MLCC 0402 0.22UF K 10V X	
C425	065G0402224A5T	MLCC 0402 0.22UF K 10V X	
C417	065G0402224A5T	MLCC 0402 0.22UF K 10V X	
C423	065G0402270 31	0402 27PF J 50V NPO	
C421	065G0402270 31	0402 27PF J 50V NPO	
C442	065G0402330 31	CHIP CAP 0402 33PF J 50V NPO	
C438	065G0402473 12	CHIP 0.047UF 16V X7R	
C437	065G0402473 12	CHIP 0.047UF 16V X7R	
C436	065G0402473 12	CHIP 0.047UF 16V X7R	
C434	065G0402473 12	CHIP 0.047UF 16V X7R	
C433	065G0402473 12	CHIP 0.047UF 16V X7R	
C432	065G0402473 12	CHIP 0.047UF 16V X7R	
FB409	071G 56G151 MD	CHIP BEAD	
FB405	071G 56K121	CHIP BEAD	
FB403	071G 56K121	CHIP BEAD	
FB402	071G 56K121	CHIP BEAD	

FB421	071G 56K121	CHIP BEAD	
D413	093G 64 42 P	BAV70 SOT23 BY PAN JIT	
D407	093G 64 42 P	BAV70 SOT23 BY PAN JIT	
D424	093G 6433P	BAV99	
D423	093G 6433P	BAV99	
D422	093G 6433P	BAV99	
D421	093G 6433P	BAV99	
D420	093G 6433P	BAV99	
D419	093G 6433P	BAV99	
D418	093G 6433P	BAV99	
D403	093G 6433P	BAV99	
D404	093G 6433P	BAV99	
D405	093G 6433P	BAV99	
D417	093G 6433P	BAV99	
D411	093G 39S 24 T	RLZ 5.6B LLDS	
D412	093G 39S 24 T	RLZ 5.6B LLDS	
D409	093G 39S 24 T	RLZ 5.6B LLDS	
D408	093G 39S 24 T	RLZ 5.6B LLDS	
D406	093G 39S 24 T	RLZ 5.6B LLDS	
D414	093G 39S 34 T	UDZSNP5.6B ROHM	
D410	093G 39S 34 T	UDZSNP5.6B ROHM	
D415	093G 39S 34 T	UDZSNP5.6B ROHM	
D401	093G 39S 34 T	UDZSNP5.6B ROHM	
D402	093G 39S 34 T	UDZSNP5.6B ROHM	
D416	093G 39S 34 T	UDZSNP5.6B ROHM	
D425	093G 39S 34 T	UDZSNP5.6B ROHM	
D704	093G2004 2	DIODE SR24	
	715G2670 1 2	MAIN BOARD PCB FR4 80X67X1.6MM DS	
	KEPC7QU1	KEY BOARD G2900-E-X-X-1-080102	
SW002	077G 600 2A CJ	TACT SWITCH 4PIN	
SW001	077G 600 2A CJ	TACT SWITCH 4PIN	
SW005	077G 600 2A CJ	TACT SWITCH 4PIN	
SW006	077G 600 2A CJ	TACT SWITCH 4PIN	
SW004	077G 600 2A CJ	TACT SWITCH 4PIN	
SW003	077G 600 2A CJ	TACT SWITCH 4PIN	
CN001	033G8032 6F HR	CONNECTOR	
R005	061G0603000	RST CHIPR 0 OHM +-5% 1/10W	
R002	061G0603000	RST CHIPR 0 OHM +-5% 1/10W	
R003	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R001	061G0603200 1F	RST CHIPR 2 KOHM +-1% 1/10W	

R004	061G0603200 1F	RST CHIPR 2 KOHM +-1% 1/10W	
C002	065G0603104 37	CHIP 0.1UF 50V/Y5V	
C003	065G0603104 37	CHIP 0.1UF 50V/Y5V	
C004	065G0603104 37	CHIP 0.1UF 50V/Y5V	
C005	065G0603104 37	CHIP 0.1UF 50V/Y5V	
C001	065G0603104 37	CHIP 0.1UF 50V/Y5V	
LED01	081G 14 12 GP	LED	
ZD002	093G 39S 24 T	RLZ 5.6B LLDS	
ZD003	093G 39S 24 T	RLZ 5.6B LLDS	
ZD001	093G 39S 24 T	RLZ 5.6B LLDS	
	715G2900 1	KEPC BOARD PCB FR4 147X12X1.6MM DS	
	PWPC8C42MQF1	POWER BOARD G2538-4-X-X-35-080716	
	040G 45762412B	CBPC LABEL	
GND1	009G6005 1	GROUND TERMINAL	
CN801	033G8021 2E F	WAFER	
CN802	033G8021 2E F	WAFER	
CN803	033G8021 2E F	WAFER	
CN804	033G8021 2E F	WAFER	
CN801	033G8021 2E U	INVERT CONNECTOR	
CN802	033G8021 2E U	INVERT CONNECTOR	
CN803	033G8021 2E U	INVERT CONNECTOR	
CN804	033G8021 2E U	INVERT CONNECTOR	
	051G 6 4503	GLUE_RTV	
IC903	056G 139 3A	IC PC123Y22FZ0F	
IC903	056G 139 5A	TCET1103G	
NR901	061G 58080 WT	8 OHM NCT	
R908	061G152M104 64	100KOHM 5% 2W	
R914	061G152M228 64	0.22 OHM 5% 2W	
C903	063G 10747410V	0.47UF 275VAC ARCO	
C904	063G107K224 UM	X2 CAP 0.22UF K 275VAC	
C904	063G107K2246S1	X2 CAP 0.22UF K 275VAC	
C903	063G107K474 6S	CAP X2 0.47UF K 275VAC	
C811	065G 6J1006ET	10PF 5% SL 6KV	
C801	065G 6J1006ET	10PF 5% SL 6KV	
C902	065G305M1022BP	Y2 1000PF M 250VAC Y5P	
C901	065G305M1022BP	Y2 1000PF M 250VAC Y5P	
C921	065G306M4722BP	4700PF +-20% 400VAC	
C803	067G215D4714KV	E.C 105°C CAP 470UF M 25V ED SERIES	
C802	067G215D4714KV	E.C 105°C CAP 470UF M 25V ED SERIES	
C918	067G215D6814KV	CAP 105°C 680UF M 25V	

C917	067G215D6814KV	CAP 105°C 680UF M 25V	
C939	067G215S1024KV	EC 105°C CAP 1000UF M 25V	
C915	067G215S4713KV	EC 105°C CAP 470UF M 16V	
C918	067G215S6814KS	EC 105°C 680UF M 25V ED 10*20MM	
C917	067G215S6814KS	EC 105°C 680UF M 25V ED 10*20MM	
C915	067G215Y4713HV	EC 470UF 16V 10*13MM	
C803	067G215Y4714HV	EC 105°C CAP 470UF M 25V	
C802	067G215Y4714HV	EC 105°C CAP 470UF M 25V	
C918	067G215Y6814HV	EC 680UF 25V ZL 10*16MM	
C917	067G215Y6814HV	EC 680UF 25V ZL 10*16MM	
C905	067G215Z12115K	ELCAP 105°C 120UF M 450V	
L901	073G 174 65 H1	LINE FILTER 26MH MIN	
L901	073G 174 65 S1	LINE FILTER 26MH MIN	
L904	073G 253191 H	IND CHOKE 1.1UH DADON	
L903	073G 253191 H	IND CHOKE 1.1UH DADON	
L904	073G 253191 YS	CHOKE COIL 1.1UH YS04110055	
L903	073G 253191 YS	CHOKE COIL 1.1UH YS04110055	
T901	080GL19T 23 N	XFMR POWER 510UH YUVA	
T901	080GL19T 23 YS	X'FMR 510UH YS04160061	
T802	080GL19T 24 H	XFMR INVERTER 740MH DADON	
T801	080GL19T 24 H	XFMR INVERTER 740MH DADON	
T801	080GL19T 24 DN	XFMR INVERTER 740MH DARFON	
T802	080GL19T 24 DN	XFMR INVERTER 740MH DARFON	
T801	080GL19T 24 YS	X'FMR 740MH YS04170157	
T802	080GL19T 24 YS	X'FMR 740MH YS04170157	
CN901	087G 501 32 S	AC SOCKET	2nd source
CN901	087G 501 32 DL	AC SOCKET DIP 3PIN+2PIN GROUND	
HS4	090G6276 1	V HEATSINK	
BD901	093G 50460 28	BRIDGE DIODE KBP208G LITEON	
CN902	095G 825 9D515	WIRE HARNESS 9P(SCN)-9P(PH)+6P(PH)	
CN902	095G 825 9E515	WIRE HARNESS 9P(SCN)-9P(PH)+6P(PH)	2nd source
	705G 193 57 01	Q901 ASS'Y	
	051G 200 1	OIL FOR DISAPPEAR	
Q901	057G 667 21	STP10NK70ZFP	
Q901	057G 667 22	FQPF8N80C	
	090G6263 1	HEAT SINK	
	0M1G1730 8120	SCREW	
	705GQ9KA 93001	D906 ASS"Y	
	051G 200 1	OIL FOR DISAPPEAR	
D906	093G 60218	SB10100FCT	

D906	093G 60267	SP10100	
	0M1G1730 8120	SCREW	
	Q90G0117 2	HEAT SINK	
	705GQ9KA 93002	D905 ASS"Y	
	051G 200 1	OIL FOR DISAPPEAR	
	090G6084 1	HEAT SINK	
D905	093G 60257	DIODE SB1060FCT ITO-220AB BY PAN JIT	
D905	093G 60278	DIODE SP1060 ITO-220 SECOS	
	0M1G1730 8120	SCREW	
IC801	056G 379 22	IC TL494IDR SOIC-16	
IC901	056G 379 71	IC TEA1530AT/N2 SO-8 NXP	
Q902	057G 417 4	PMBS3904/PHILIPS-SMT(04)	
Q811	057G 417 4	PMBS3904/PHILIPS-SMT(04)	
Q807	057G 417 4	PMBS3904/PHILIPS-SMT(04)	
Q806	057G 417 4	PMBS3904/PHILIPS-SMT(04)	
Q801	057G 417 4	PMBS3904/PHILIPS-SMT(04)	
Q812	057G 417 6	PMBS3906/PHILIPS-SMT(06)	
Q804	057G 417 6	PMBS3906/PHILIPS-SMT(06)	
Q801	057G 417 12 T	KEC 2N3904S-RTK/PS	
Q806	057G 417 12 T	KEC 2N3904S-RTK/PS	
Q807	057G 417 12 T	KEC 2N3904S-RTK/PS	
Q811	057G 417 12 T	KEC 2N3904S-RTK/PS	
Q804	057G 417 16 T	MMBT2907	
Q812	057G 417 16 T	MMBT2907	
Q802	057G 600 55	P5506 HVG SO-8	
Q803	057G 600 55	P5506 HVG SO-8	
Q809	057G 759 2	RK7002	
Q810	057G 759 2	RK7002	
Q808	057G 760 4A	DTA144WN3/S SOT-23	
Q808	057G 760 4B	PDTA144WK SOT346	
Q805	057G 760 5A	DTC 144WN3/S SOT-23	
Q805	057G 760 5B	PDTC144WK SOT346	
Q802	057G 763 14	AM9945N	
Q803	057G 763 14	AM9945N	
R827	061G0603000	RST CHIPR 0 OHM +-5% 1/10W	
R821	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R818	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R816	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R815	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R814	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	

R812	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R809	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R801	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R822	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R824	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R826	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R925	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R942	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R926	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R834	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R833	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R832	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R828	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R817	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R813	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R808	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R803	061G0603105	RST CHIPR 1M OHM +-5% 1/10W	
R835	061G0603105	RST CHIPR 1M OHM +-5% 1/10W	
R862	061G0603105	RST CHIPR 1M OHM +-5% 1/10W	
R851	061G0603130 2F	RST CHIPR 13 KOHM +-1% 1/10W	
R924	061G0603152	RST CHIPR 1.5 KOHM +-5% 1/10W	
R831	061G0603240 1F	RST CHIPR 2.4 KOHM +-1% 1/10W	
R930	061G0603240 1F	RST CHIPR 2.4 KOHM +-1% 1/10W	
R811	061G0603270 1F	RST CHIPR 2.7 KOHM +-1% 1/10W	
R861	061G0603270 3F	RST CHIPR 270KOHM +-1% 1/10W	
R940	061G0603330 2F	RST CHIPR 33K OHM +-1% 1/10W	
R927	061G0603360 1F	RST CHIPR 3.6K OHM +-1% 1/10W	
R823	061G0603362	RST CHIPR 3.6 KOHM +-5% 1/10W	
R819	061G0603362	RST CHIPR 3.6 KOHM +-5% 1/10W	
R807	061G0603470 2F	RST CHIPR 47 KOHM +-1% 1/10W	
R820	061G0603470 2F	RST CHIPR 47 KOHM +-1% 1/10W	
R854	061G0603680 2F	RST CHIPR 68K OHM +-1% 1/10W	
R853	061G0603680 2F	RST CHIPR 68K OHM +-1% 1/10W	
R841	061G0603680 2F	RST CHIPR 68K OHM +-1% 1/10W	
R806	061G0603680 2F	RST CHIPR 68K OHM +-1% 1/10W	
R850	061G0805000	RST CHIPR 0 OHM +-5% 1/8W	
R839	061G0805000	RST CHIPR 0 OHM +-5% 1/8W	
R804	061G0805101	1ST CHIPR 100 OHM +-5% 1/8W	
R929	061G0805102	RST CHIPR 1K OHM +-5% 1/8W	
R917	061G0805102	RST CHIPR 1K OHM +-5% 1/8W	

R911	061G0805102	RST CHIPR 1K OHM +-5% 1/8W	
R938	061G0805103	RST CHIPR 10K OHM +-5% 1/8W	
R916	061G0805152	RST CHIPR 1.5 KOHM +-5% 1/8W	
R825	061G0805220	RST CHIPR 22 OHM +-5% 1/8W	
R829	061G0805220	RST CHIPR 22 OHM +-5% 1/8W	
R912	061G0805220 2F	RST CHIPR 22 KOHM +-1% 1/8W	
R915	061G0805224	RST CHIPR 220 KOHM +-5% 1/8W	
R837	061G0805473	RST CHIPR 47K OHM +-5% 1/8W	
R810	061G0805510 2F	RST CHIPR 51K OHM +-1% 1/8W	
R931	061G0805822	RST CHIPR 8.2 KOHM +-5% 1/8W	
JR801	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
JR802	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
JR803	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
JR804	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
JR805	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
JR807	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
JR808	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
JR809	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
JR901	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
F902	061G1206000 4	RST CHIPR 0 OHM +-5% 1/4W	
F801	061G1206000 4	RST CHIPR 0 OHM +-5% 1/4W	
R967	061G1206000 4	RST CHIPR 0 OHM +-5% 1/4W	
R909	061G1206100	RST CHIPR 10 OHM +-5% 1/4W	
R910	061G1206100	RST CHIPR 10 OHM +-5% 1/4W	
R962	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R961	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R935	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R920	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R919	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R918	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R921	061G1206102	RST CHIPR 1K OHM +-5% 1/4W	
R922	061G1206102	RST CHIPR 1K OHM +-5% 1/4W	
R923	061G1206102	RST CHIPR 1K OHM +-5% 1/4W	
R928	061G1206102	RST CHIPR 1K OHM +-5% 1/4W	
R855	061G1206150	RST CHIPR 15 OHM +-5% 1/4W	
R856	061G1206150	RST CHIPR 15 OHM +-5% 1/4W	
R857	061G1206150	RST CHIPR 15 OHM +-5% 1/4W	
R858	061G1206150	RST CHIPR 15 OHM +-5% 1/4W	
R904	061G1206472	RST CHIPR 4.7K OHM +-5% 1/4W	
R932	061G1206472	RST CHIPR 4.7K OHM +-5% 1/4W	

R933	061G1206472	RST CHIPR 4.7K OHM +-5% 1/4W	
R901	061G1206514	RST CHIPR 510 KOHM +-5% 1/4W	
R902	061G1206514	RST CHIPR 510 KOHM +-5% 1/4W	
R903	061G1206514	RST CHIPR 510 KOHM +-5% 1/4W	
C842	065G0603103 12	CHIP 0.01UF 16V X7R	
C924	065G0603103 12	CHIP 0.01UF 16V X7R	
C807	065G0603104 22	CAP CHIP 0603 0.1UF K 25V X7R	
C821	065G0603104 22	CAP CHIP 0603 0.1UF K 25V X7R	
C825	065G0603104 22	CAP CHIP 0603 0.1UF K 25V X7R	
C834	065G0603104 22	CAP CHIP 0603 0.1UF K 25V X7R	
C823	065G0603222 22	CHIP 2200PF 25V X7R	
C819	065G0603222 22	CHIP 2200PF 25V X7R	
C816	065G0603222 22	CHIP 2200PF 25V X7R	
C815	065G0603222 22	CHIP 2200PF 25V X7R	
C910	065G0805102 32	CHIP 1000P 50VX7R 0805	
C931	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R	
C930	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R	
C916	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R	
C907	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R	
C824	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R	
C805	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R	
C822	065G0805105 22	CAP CHIP 0805 1UF K 25V X7R	
C928	065G0805122 31	CHIP CAP 0805 1200PF J 50V NPO	
C841	065G0805152 31	1.5NF/50V	
C840	065G0805152 31	1.5NF/50V	
C839	065G0805152 31	1.5NF/50V	
C838	065G0805152 31	1.5NF/50V	
C820	065G080522131G	CAP CHIP 0805 220PF G 50V NPO	
C911	065G0805224 22	CAIP CAP 0.22 UF 25V X7R	
C909	065G0805224 32	0.22UF,K,50V,X7R	
C845	065G0805225 12	CAP CHIP 0805 2.2UF K 16V X7R	
C929	065G1206102 72	CAP CHIP 1206 1000PF K 500V X7R	
C912	065G1206102 72	CAP CHIP 1206 1000PF K 500V X7R	
D803	093G 64 33	DIO SIG SM BAV99 (PHSE)R	
D802	093G 64 33	DIO SIG SM BAV99 (PHSE)R	
D801	093G 64 33	DIO SIG SM BAV99 (PHSE)R	
D804	093G 64 33	DIO SIG SM BAV99 (PHSE)R	
D903	093G 64 38 P	BAW56	
D808	093G 64 38 P	BAW56	
D805	093G 64 38 P	BAW56	

D806	093G 6432S	IN4148W	
D809	093G 6432S	IN4148W	
D814	093G 6432S	IN4148W	
D817	093G 6432S	IN4148W	
D915	093G 6432S	IN4148W	
D916	093G 6432S	IN4148W	
D801	093G 6433P	BAV99	
D802	093G 6433P	BAV99	
D803	093G 6433P	BAV99	
D804	093G 6433P	BAV99	
ZD922	093G 39S 25 T	RLZ5.1B LLDS	
ZD902	093G 39S 61 T	DIODE RLZ16B ROHM	
ZD921	093G 39S 61 T	DIODE RLZ16B ROHM	
CN901	006G 31500	EYELET	
T901	006G 31502	1.5MM RIVET	
NR901	006G 31502	1.5MM RIVET	
IC904	056G 158 4 T	H431BA	
IC904	056G 158 12	KIA431A-AT/P TO-92	
C938	065G 2K152 1T6921	1.5NF/2KV Y5P +-10%	
C906	065G 2K152 1T6921	1.5NF/2KV Y5P +-10%	
C908	067G215Y2207KT	CAP 105℃ 22UF M 50V KINGNICH	
FB901	071G 55 29	FERRITE BEAD	
F901	084G 55 1W	FUSE 4A 250V WICKMANN	
D901	093G 6038P52T	PS102R	
D900	093G1100 1152T	DIODE PR1007R 1A/1000V DO-41	
J808	095G 90 23	JUMPER	
J807	095G 90 23	JUMPER	
J806	095G 90 23	JUMPER	
J805	095G 90 23	JUMPER	
J804	095G 90 23	JUMPER	
J803	095G 90 23	JUMPER	
J802	095G 90 23	JUMPER	
J801	095G 90 23	JUMPER	
J906	095G 90 23	JUMPER	
J904	095G 90 23	JUMPER	
J903	095G 90 23	JUMPER	
J902	095G 90 23	JUMPER	
J901	095G 90 23	JUMPER	
J817	095G 90 23	JUMPER	
J816	095G 90 23	JUMPER	

J815	095G 90 23	JUMPER	
J814	095G 90 23	JUMPER	
J813	095G 90 23	JUMPER	
J809	095G 90 23	JUMPER	
J810	095G 90 23	JUMPER	
J811	095G 90 23	JUMPER	
J812	095G 90 23	JUMPER	
	715G2538 1ACE	POWER BOARD PCB 124X160X1.6MM FR-1 1OZ S/S	
L903	S73G25391V1	CHOKE COIL ASS'Y	
L904	S73G25391V1	CHOKE COIL ASS'Y	
T901	S80GL19T23V	TRANSFORMER ASS'Y	
	Q15G0267201	SHIELDING	
	Q40G 22N68017A	RATING LABEL	
	Q40G000268070A	TRY ME LABEL FOR VK22	
	Q40G000268080A	SPLENDID LABEL FOR VW224U	
	Q41G780068031D	APAC WARRANTY CARD NON ZBD	
	Q44GC03768010A	22 LCD CARTON	
	Q44GC055101	EPS	
	Q44GC055201	EPS	
	Q45G 76 28V13 R	PE BAG	
	Q45G 77 5	PE PACKING	
	Q45G 88607 25	PE BAG FOR BASE	
	Q45G 88609130	EPE BAG	
	Q52G6020 29	PROTECT FILM	
	045G 76 28 RN	PE BAG FOR MANUAL	
E08904	089G 17356G554	AUDIO CABLE	
	Q41G780068045A	QSG	
	Q70G2201680 4A	CD MANUAL	
	040G 457834 4A GP	S/N LABEL FOR ID	
	040G 58162435A	P/N LABEL FOR MANUAL PE BAG	
	040G 582680 4A	CARTON LABEL	

VW224S TCR2MPNBWYUSAI

Location	Part No.	Description	Remark
	040G 58160811A	GREEN DOT LABEL	
	040G 581680 1A	WARRANTY LABEL	
	044GH600 1	HANDLE 2	
	050G 600 4	HANDLE 1	
	052G 1185 49	ASUS TAPE 73-D024084	
	052G 1186	SMALL TAPE	
	052G 1209 A	200MINIUM TAPE	
	052G 1211 A	CONDUCTIVE TAPE 55MM *45MM *0.08MM	
	052G 2191 A	PAPER TAPE	
E07801	078G 322 11 V	SPK 8 OHM 1.5W 43X18MM VECO	2nd source
E07801	078G 322 11 Y	SPK 8 OHM 1.5W 43X18MM SUNLINK	
E08904	089G 17356G554	AUDIO CABLE	
E08902	089G 728CAA DB	D-SUB CABLE	2nd source
E08902	089G 728GAA DB	D-SUB CABLE	
E08902	089G 728HAA DB	D-SUB CABLE	2nd source
E08907	089G176J 55 1A	FFC CABLE 55PIN	2nd source
E08907	089G176W 55 1A	FFC CABLE 55PIN	
E08901	089G404A18N IS	POWER CORD 插/32E1818018	2nd source
E08901	089G404A18N YH	POWER CORD(32E1818018/32-D022217)	
E09502	095G8014 6D698	WIRE HARNESS 6P(PH)-6P(A1253 HR)	2nd source
E09502	095G8014 6W698	WIRE HARNESS 6P(PH)-6P(A1253 HR)	2nd source
E09502	095G8014 6X698	WIRE HARNESS 6P(PH)-6P(A1253 HR)	
	0M1G1730 6120	SCREW,42-D020523	
	705GQ734554	22" LCD STAND COVER-BASE ASS'Y	
	0M1G1740 10120	SCREW 42A9940008	
	A34G0576ADJ 1B	STAND	
	A34G0577ADJ 1B 20	BASE	
	A37G0063 1	HINGE ASS'Y	
	Q12G6600 6	FOOT	
	705GQ734555	22" LCD HINGE COVER ASS'Y	
	0Q1G 130 8 47 CR3	SCREW	
	A34G0574ADJ 1B 39	HINGE COVER	
	A34G0575ADJ 1B 19	CABLE CLIP	
	705GQ834265	22" LCD REAR COVER ASS'Y	
	A34G0761ADJ 4B 30	REAR COVER(22")	
	Q12G6300 71	VESA PLUG	
	705GQ834347	22" BEZEL ASS'Y	
	A33G0322 1 1C	LENS	

	A33G0323 AS 1L	FUNCTION KEY	
	A34G0759ADJB1B 30	BEZEL 22	
	Q33G0273 AS 1L0100	STRIP	
	750GLV220KZ141N000	PANEL TPM220Z1-PS3 C1A/C1C FQ TPV	
	756GQ8CB CA009	MAIN BOARD-CBPCRMPU2Q3	
SMTCR-U402	100GCMMC002N21	MCU ASS'Y-056G1133713	
	A15G0351101	HINGE BKT	
	AM1G1740 10125	SCREW	
	AUPC8QU3	AUDIO BOARD G2837-1-2-X-2-080707	
CN603	033G3802 4	WAFER EH-4	
CN605	033G3802 6	WAFER	
U601	056G 616 40	IC EUA6021A1T1 2.5W*2 DIP-20	
CN601	088G 30214K	PHONE JACK 5PIN	
R601	061G 60210352T	CFR 10KOHM +-5% 1/6W	
R602	061G 60210352T	CFR 10KOHM +-5% 1/6W	
R603	061G 60210352T	CFR 10KOHM +-5% 1/6W	
R604	061G 60210352T	CFR 10KOHM +-5% 1/6W	
R605	061G 60210352T	CFR 10KOHM +-5% 1/6W	
R611	061G 60210352T	CFR 10KOHM +-5% 1/6W	
R606	061G 60220352T	CFR 20K OHM+-5% 1/6W	
R607	061G 60220352T	CFR 20K OHM+-5% 1/6W	
C610	065G 444102 5T	1000PF 10% 50V CERAMIC	
C611	065G 444102 5T	1000PF 10% 50V CERAMIC	
C601	065G250K4742GT	CAP JC 0.47UF K 25V X7R	
C602	065G250K4742GT	CAP JC 0.47UF K 25V X7R	
C603	065G250K4742GT	CAP JC 0.47UF K 25V X7R	
C605	065G250K4742GT	CAP JC 0.47UF K 25V X7R	
C606	065G250K4742GT	CAP JC 0.47UF K 25V X7R	
C607	065G250K4742GT	CAP JC 0.47UF K 25V X7R	
C608	067G 3051097PT	105 摄氏度 1UF +-20% 50V	
C609	067G 3051097PT	105 摄氏度 1UF +-20% 50V	
C604	067G215B101 3T	CAP 105℃ 100UF M 16V	
FB601	071G 55 23	BEAD	
	715G2837 1 2	AUDIO-PCB 25*109.5MM 14PCS/PNLS FR-1	
	Q90G6258 2	HEAT SINK	
	CBPCRMPU2Q3	MAIN BOARD G2670-1-2-X-9-080523	
	040G 45762412B	CBPC LABEL	
CN403	033G3802 6	WAFER	
CN701	033G3802 9	WAFER 9P RIGHT ANELE PITCH	

R702	061G152M339 64	CHIPR 3.3 OHM +-5% 2W	
CN405	088G 35315F HD	D-SUB CONN F ATTACHED SCREW	
CN405	088G 35315F XH	D-SUB 15PIN VERTICAL CONN WITH SCREW	
X401	093G 2253B H	XAT01431AFI1H-3OHX AT-49 14.31818MHZ	
CN407	033G801955Y H HC	0.5 PITCH 55P SMT	
U401	056G 562173	IC TSUMU5RBWHQ-LF PQFP-128	
U701	056G 56327A	IC AP1117E18LA SOT223-3L ANACHIP	
U702	056G 585 4A	IC AP1117E33L-13	
U404	056G1133 34	M24C02-WMN6TP	
U403	056G1133 56	M24C16-WMN6TP	
U403	056G1133 89	IC AF24BC16-SI 16K SOIC-8	
U402	056G1133713	IC PM25LV010A-100SCE SOIC-8	
Q402	057G 417511	MMBT3904	
Q406	057G 417511	MMBT3904	
Q703	057G 417511	MMBT3904	
Q401	057G 417512	MMBT3906	
Q403	057G 417512	MMBT3906	
Q411	057G 417512	MMBT3906	
Q412	057G 763 1	A03401 SOT23 BY AOS(A1)	
Q412	057G 763501	FET AM2321P ANALOG POWER	
R407	061G0402000	RST CHIP MAX 0R05 1/16W	
R410	061G0402000	RST CHIP MAX 0R05 1/16W	
R411	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R418	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R420	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R427	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R428	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R429	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R441	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R442	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R443	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R453	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R454	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R483	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R488	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R499	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R447	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W	
R445	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W	
R446	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W	
R493	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	

R425	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R424	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R415	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R413	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R408	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R406	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R404	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R426	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R452	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R487	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R489	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R490	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R708	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R494	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R497	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R711	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R431	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R448	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W	
R449	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W	
R405	061G0402223	RST CHIPR 22 KOHM +-5% 1/16W	
R403	061G0402390 0F	RST CHIP 390R 1/16W 1%	
R474	061G0402390 1F	RST CHIPR 3.9KOHM +-1% 1/16W	
R475	061G0402390 1F	RST CHIPR 3.9KOHM +-1% 1/16W	
R419	061G0402471	RST CHIPR 470 OHM +-5% 1/16W	
R421	061G0402471	RST CHIPR 470 OHM +-5% 1/16W	
R437	061G0402471	RST CHIPR 470 OHM +-5% 1/16W	
R496	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R451	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R450	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R712	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R444	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R433	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R423	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R422	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R495	061G0402513	RST CHIP 51K 1/16W 5%	
R434	061G0402560	RST CHIP 56R 1/16W 5%	
R435	061G0402560	RST CHIP 56R 1/16W 5%	
R436	061G0402560	RST CHIP 56R 1/16W 5%	
R438	061G0402750	RST CHIPR 75 OHM +-5% 1/16W	
R439	061G0402750	RST CHIPR 75 OHM +-5% 1/16W	

R440	061G0402750	RST CHIPR 75 OHM +-5% 1/16W	
FB401	061G0603000	RST CHIP MAX 0R05 1/10W	
FB410	061G0603000	RST CHIP MAX 0R05 1/10W	
FB411	061G0603000	RST CHIP MAX 0R05 1/10W	
FB412	061G0603000	RST CHIP MAX 0R05 1/10W	
R491	061G0805391	RST CHIPR 390 OHM 5% 1/8W	
C435	065G0402102 32	1000PF +-10% 50V X7R	
C410	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C409	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C407	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C406	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C411	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C412	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C440	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C441	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C456	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C457	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C458	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C701	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C704	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C709	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C711	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C713	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C714	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C462	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C465	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C413	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C414	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C415	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C416	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C419	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C420	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C422	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C426	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C427	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C428	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C429	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C430	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C439	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C405	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	

C404	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C402	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C401	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C463	065G0402105 A5	CAP 0402 1UF K 10V X5R	
C443	065G0402221 31	CAP:CER 220PF 5% 50V SM	
C444	065G0402224A5T	MLCC 0402 0.22UF K 10V X	
C417	065G0402224A5T	MLCC 0402 0.22UF K 10V X	
C425	065G0402224A5T	MLCC 0402 0.22UF K 10V X	
C421	065G0402270 31	0402 27PF J 50V NPO	
C423	065G0402270 31	0402 27PF J 50V NPO	
C442	065G0402330 31	CHIP CAP 0402 33PF J 50V NPO	
C438	065G0402473 12	CHIP 0.047UF 16V X7R	
C437	065G0402473 12	CHIP 0.047UF 16V X7R	
C436	065G0402473 12	CHIP 0.047UF 16V X7R	
C434	065G0402473 12	CHIP 0.047UF 16V X7R	
C433	065G0402473 12	CHIP 0.047UF 16V X7R	
C432	065G0402473 12	CHIP 0.047UF 16V X7R	
FB409	071G 56G151 MD	CHIP BEAD	
FB405	071G 56K121	CHIP BEAD	
FB403	071G 56K121	CHIP BEAD	
FB402	071G 56K121	CHIP BEAD	
FB421	071G 56K121	CHIP BEAD	
D407	093G 64 42 P	BAV70 SOT23 BY PAN JIT	
D405	093G 6433P	BAV99	
D404	093G 6433P	BAV99	
D403	093G 6433P	BAV99	
D406	093G 39S 24 T	RLZ 5.6B LLDS	
D408	093G 39S 24 T	RLZ 5.6B LLDS	
D409	093G 39S 24 T	RLZ 5.6B LLDS	
D411	093G 39S 24 T	RLZ 5.6B LLDS	
D412	093G 39S 24 T	RLZ 5.6B LLDS	
D401	093G 39S 34 T	UDZSNP5.6B ROHM	
D402	093G 39S 34 T	UDZSNP5.6B ROHM	
D410	093G 39S 34 T	UDZSNP5.6B ROHM	
D704	093G2004 2	DIODE SR24	
	715G2670 1 2	MAIN PCB FR4 80X67X1.6MM DS	
	KEPC7QU1	KEY BOARD G2900-E-X-X-1-080102	
SW002	077G 600 2A CJ	TACT SWITCH 4PIN	
SW001	077G 600 2A CJ	TACT SWITCH 4PIN	
SW005	077G 600 2A CJ	TACT SWITCH 4PIN	

SW006	077G 600 2A CJ	TACT SWITCH 4PIN	
SW004	077G 600 2A CJ	TACT SWITCH 4PIN	
SW003	077G 600 2A CJ	TACT SWITCH 4PIN	
CN001	033G8032 6F HR	CONNECTOR	
R005	061G0603000	RST CHIP MAX 0R05 1/10W	
R002	061G0603000	RST CHIP MAX 0R05 1/10W	
R003	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R004	061G0603200 1F	RST CHIPR 2 KOHM +-1% 1/10W	
R001	061G0603200 1F	RST CHIPR 2 KOHM +-1% 1/10W	
C003	065G0603104 37	CHIP 0.1UF 50V/Y5V	
C005	065G0603104 37	CHIP 0.1UF 50V/Y5V	
C001	065G0603104 37	CHIP 0.1UF 50V/Y5V	
C002	065G0603104 37	CHIP 0.1UF 50V/Y5V	
C004	065G0603104 37	CHIP 0.1UF 50V/Y5V	
LED01	081G 14 12 GP	LED	
ZD003	093G 39S 24 T	RLZ 5.6B LLDS	
ZD001	093G 39S 24 T	RLZ 5.6B LLDS	
ZD002	093G 39S 24 T	RLZ 5.6B LLDS	
	715G2900 1	KEPC PCB FR4 147X12X1.6MM DS	
	PWPC8C42MQF1	POWER BOARD G2538-2-ACE-X-14-081113	
	040G 45762412B	CBPC LABEL	
GND1	009G6005 1	GROUND TERMINAL	
CN801	033G8021 2E F	WAFER	
CN802	033G8021 2E F	WAFER	
CN803	033G8021 2E F	WAFER	
CN804	033G8021 2E F	WAFER	
CN801	033G8021 2E U	INVERT CONNECTOR	
CN802	033G8021 2E U	INVERT CONNECTOR	
CN803	033G8021 2E U	INVERT CONNECTOR	
CN804	033G8021 2E U	INVERT CONNECTOR	
IC903	056G 139 3A	IC PC123Y22FZ0F	
IC903	056G 139 5A	TCET1103G	
NR901	061G 58080 WT	8 OHM NCT	
R908	061G152M104 64	100KOHM 5% 2W	
R914	061G152M228 64	0.22 OHM 5% 2W	
C904	063G107K2246S1	X2 CAP 0.22UF K 275VAC	
C903	063G107K474 6S	CAP X2 0.47UF K 275VAC	
C801	065G 6J1006ET	10PF 5% SL 6KV	
C811	065G 6J1006ET	10PF 5% SL 6KV	
C902	065G305M1022BP	Y2 1000PF M 250VAC Y5P	

C901	065G305M1022BP	Y2 1000PF M 250VAC Y5P	
C921	065G306M4722BP	4700PF +-20% 400VAC	
C939	067G215S1024KV	EC 105°C CAP 1000UF M 25V	
C915	067G215S4713KV	EC 105°C CAP 470UF M 16V	
C915	067G215Y4713HV	EC 470UF 16V 10*13MM	
C803	067G215Y4714HV	EC 105°C CAP 470UF M 25V	
C802	067G215Y4714HV	EC 105°C CAP 470UF M 25V	
C918	067G215Y6814HV	EC 680UF 25V ZL 10*16MM	
C917	067G215Y6814HV	EC 680UF 25V ZL 10*16MM	
C905	067G215Z12115K	ELCAP 105°C 120UF M 450V	
L901	073G 174 65 H1	LINE FILTER 26MH MIN	
L901	073G 174 65 S1	LINE FILTER 26MH MIN	
L904	073G 253 91 V1	CHOKE COIL 1.1UH	
L903	073G 253 91 V1	CHOKE COIL 1.1UH	
L904	073G 253191 H	IND CHOKE 1.1UH DADON	
L903	073G 253191 H	IND CHOKE 1.1UH DADON	
L904	073G 253191 YS	CHOKE COIL 1.1UH YS04110055	
L903	073G 253191 YS	CHOKE COIL 1.1UH YS04110055	
T901	080GL19T 23 N	XFMR POWER 510UH YUVA	
T901	080GL19T 23 YS	X'FMR 510UH YS04160061	
T801	080GL19T 24 H	XFMR INVERTER 740MH DADON	
T802	080GL19T 24 H	XFMR INVERTER 740MH DADON	
T801	080GL19T 24 DN	XFMR INVERTER 740MH DARFON	
T802	080GL19T 24 DN	XFMR INVERTER 740MH DARFON	
T801	080GL19T 24 YS	X'FMR 740MH YS04170157	
T802	080GL19T 24 YS	X'FMR 740MH YS04170157	
CN901	087G 501 32 S	AC SOCKET	
CN901	087G 501 32 DL	AC SOCKET DIP 3PIN+2PIN GROUND	
HS4	090G6276 1	V HEATSINK	
BD901	093G 50460 28	BRIDGE DIODE KBP208G LITEON	
CN902	095G 825 9D515	WIRE HARNESS 9P(SCN)-9P(PH)+6P(PH)	2nd source
CN902	095G 825 9E515	WIRE HARNESS 9P(SCN)-9P(PH)+6P(PH)	
	705G 193 57 01	Q901 ASS'Y	
Q901	057G 667 21	STP10NK70ZFP	
Q901	057G 667 22	FQPF8N80C	
	090G6263 1	HEAT SINK	
	0M1G1730 8120	SCREW	
	705GQ9KA 93001	D906 ASS"Y	
D906	093G 60218	SB10100FCT	
D906	093G 60267	SP10100	

	0M1G1730 10120	SCREW 42A9930016	
	Q90G0117 2	HEAT SINK	
	705GQ9KA 93002	D905 ASS"Y	
	090G6084 1	HEAT SINK	
D905	093G 60257	DIODE SB1060FCT ITO-220AB BY PAN JIT	
D905	093G 60278	DIODE SP1060 ITO-220 SECOS	
	0M1G1730 8120	SCREW	
IC801	056G 379 22	IC TL494IDR SOIC-16	
IC901	056G 379 71	IC TEA1530AT/N2 SO-8 NXP	
Q902	057G 417 4	PMBS3904/PHILIPS-SMT(04)	
Q811	057G 417 4	PMBS3904/PHILIPS-SMT(04)	
Q807	057G 417 4	PMBS3904/PHILIPS-SMT(04)	
Q806	057G 417 4	PMBS3904/PHILIPS-SMT(04)	
Q801	057G 417 4	PMBS3904/PHILIPS-SMT(04)	
Q812	057G 417 6	PMBS3906/PHILIPS-SMT(06)	
Q804	057G 417 6	PMBS3906/PHILIPS-SMT(06)	
Q803	057G 600 55	P5506 HVG SO-8	
Q802	057G 600 55	P5506 HVG SO-8	
Q809	057G 759 2	RK7002FD5T116 SOT-23 BY ROHM	
Q810	057G 759 2	RK7002FD5T116 SOT-23 BY ROHM	
Q808	057G 760 4A	DTA144WN3/S SOT-23	
Q808	057G 760 4B	PDTA144WK SOT346	
Q805	057G 760 5A	DTC 144WN3/S SOT-23	
R824	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R822	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R821	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R818	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R816	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R815	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R814	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R812	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R809	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R801	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R826	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R925	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R942	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R926	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R834	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R833	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R832	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	

R828	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R817	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R813	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R808	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R862	061G0603105	RST CHIPR 1M OHM +-5% 1/10W	
R803	061G0603105	RST CHIPR 1M OHM +-5% 1/10W	
R851	061G0603130 2F	RST CHIPR 13 KOHM +-1% 1/10W	
R924	061G0603152	RST CHIPR 1.5 KOHM +-5% 1/10W	
R831	061G0603240 1F	RST CHIPR 2.4 KOHM +-1% 1/10W	
R930	061G0603240 1F	RST CHIPR 2.4 KOHM +-1% 1/10W	
R861	061G0603270 3F	RST CHIPR 270KOHM +-1% 1/10W	
R811	061G0603300 1F	RST CHIPR 3 KOHM +-1% 1/10W	
R940	061G0603330 2F	RST CHIPR 33K OHM +-1% 1/10W	
R927	061G0603360 1F	RST CHIPR 3.6K OHM +-1% 1/10W	
R827	061G0603362	RST CHIPR 3.6 KOHM +-5% 1/10W	
R819	061G0603362	RST CHIPR 3.6 KOHM +-5% 1/10W	
R823	061G0603362	RST CHIPR 3.6 KOHM +-5% 1/10W	
R820	061G0603470 2F	RST CHIPR 47 KOHM +-1% 1/10W	
R807	061G0603470 2F	RST CHIPR 47 KOHM +-1% 1/10W	
R806	061G0603680 2F	RST CHIPR 68K OHM +-1% 1/10W	
R841	061G0603680 2F	RST CHIPR 68K OHM +-1% 1/10W	
R853	061G0603680 2F	RST CHIPR 68K OHM +-1% 1/10W	
R854	061G0603680 2F	RST CHIPR 68K OHM +-1% 1/10W	
R850	061G0805000	RST CHIP MAX 0R05 1/8W	
R839	061G0805000	RST CHIP MAX 0R05 1/8W	
R804	061G0805101	1ST CHIPR 100 OHM +-5% 1/8W	
R911	061G0805102	RST CHIPR 1K OHM +-5% 1/8W	
R917	061G0805102	RST CHIPR 1K OHM +-5% 1/8W	
R929	061G0805102	RST CHIPR 1K OHM +-5% 1/8W	
R938	061G0805103	RST CHIPR 10K OHM +-5% 1/8W	
R916	061G0805152	RST CHIPR 1.5 KOHM +-5% 1/8W	
R825	061G0805220	RST CHIPR 22 OHM +-5% 1/8W	
R829	061G0805220	RST CHIPR 22 OHM +-5% 1/8W	
R912	061G0805220 2F	RST CHIPR 22 KOHM +-1% 1/8W	
R915	061G0805224	RST CHIPR 220 KOHM +-5% 1/8W	
R837	061G0805473	RST CHIPR 47K OHM +-5% 1/8W	
R810	061G0805510 2F	RST CHIPR 51K OHM +-1% 1/8W	
R931	061G0805822	RST CHIPR 8.2 KOHM +-5% 1/8W	
JR809	061G1206000	RST CHIP MAX 0R05 1/4W	
JR808	061G1206000	RST CHIP MAX 0R05 1/4W	

JR807	061G1206000	RST CHIP MAX 0R05 1/4W	
JR805	061G1206000	RST CHIP MAX 0R05 1/4W	
JR804	061G1206000	RST CHIP MAX 0R05 1/4W	
JR803	061G1206000	RST CHIP MAX 0R05 1/4W	
JR802	061G1206000	RST CHIP MAX 0R05 1/4W	
JR801	061G1206000	RST CHIP MAX 0R05 1/4W	
F902	061G1206000 4	RST CHIP MAX 0R05 1/4W	
F801	061G1206000 4	RST CHIP MAX 0R05 1/4W	
R967	061G1206000 4	RST CHIP MAX 0R05 1/4W	
R909	061G1206100	RST CHIPR 10 OHM +-5% 1/4W	
R910	061G1206100	RST CHIPR 10 OHM +-5% 1/4W	
R962	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R961	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R935	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R920	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R919	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R918	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R921	061G1206102	RST CHIPR 1K OHM +-5% 1/4W	
R922	061G1206102	RST CHIPR 1K OHM +-5% 1/4W	
R923	061G1206102	RST CHIPR 1K OHM +-5% 1/4W	
R928	061G1206102	RST CHIPR 1K OHM +-5% 1/4W	
R855	061G1206150	RST CHIPR 15 OHM +-5% 1/4W	
R856	061G1206150	RST CHIPR 15 OHM +-5% 1/4W	
R857	061G1206150	RST CHIPR 15 OHM +-5% 1/4W	
R858	061G1206150	RST CHIPR 15 OHM +-5% 1/4W	
R904	061G1206472	RST CHIPR 4.7K OHM +-5% 1/4W	
R932	061G1206472	RST CHIPR 4.7K OHM +-5% 1/4W	
R933	061G1206472	RST CHIPR 4.7K OHM +-5% 1/4W	
R901	061G1206514	RST CHIPR 510 KOHM +-5% 1/4W	
R902	061G1206514	RST CHIPR 510 KOHM +-5% 1/4W	
R903	061G1206514	RST CHIPR 510 KOHM +-5% 1/4W	
C842	065G0603103 12	CHIP 0.01UF 16V X7R	
C924	065G0603103 12	CHIP 0.01UF 16V X7R	
C834	065G0603103 22	CHIP 10NF 25V X7R 0603	
C807	065G0603104 22	CAP CHIP 0603 0.1UF K 25V X7R	
C825	065G0603104 22	CAP CHIP 0603 0.1UF K 25V X7R	
C815	065G0603222 22	CHIP 2200PF 25V X7R	
C816	065G0603222 22	CHIP 2200PF 25V X7R	
C819	065G0603222 22	CHIP 2200PF 25V X7R	
C823	065G0603222 22	CHIP 2200PF 25V X7R	

C821	065G0603333 32	CHIP 0.033UF 50V X7R 0603	
C910	065G0805102 32	CHIP 1000P 50VX7R 0805	
C931	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R	
C930	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R	
C916	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R	
C907	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R	
C824	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R	
C805	065G0805104 32	CAP CHIP 0805 0.1UF K 50V X7R	
C822	065G080510522K T	CAP CHIP 0805 1UF K 25V X7R	
C928	065G0805122 31	CHIP CAP 0805 1200PF J 50V NPO	
C841	065G0805152 31	1.5NF/50V	
C840	065G0805152 31	1.5NF/50V	
C839	065G0805152 31	1.5NF/50V	
C838	065G0805152 31	1.5NF/50V	
C820	065G080522131G	CAP CHIP 0805 220PF G 50V NPO	
C911	065G0805224 22	CAIP CAP 0.22 UF 25V X7R	
C909	065G0805224 32	0.22UF,K,50V,X7R	
C845	065G0805225 12	CAP CHIP 0805 2.2UF K 16V X7R	
C912	065G1206102 72	CAP CHIP 1206 1000PF K 500V X7R	
C929	065G1206102 72	CAP CHIP 1206 1000PF K 500V X7R	
D804	093G 64 33	DIO SIG SM BAV99 (PHSE)R	
D803	093G 64 33	DIO SIG SM BAV99 (PHSE)R	
D802	093G 64 33	DIO SIG SM BAV99 (PHSE)R	
D801	093G 64 33	DIO SIG SM BAV99 (PHSE)R	
D805	093G 64 38 P	BAW56	
D808	093G 64 38 P	BAW56	
D903	093G 64 38 P	BAW56	
D916	093G 6432S	1N4148W	
D915	093G 6432S	1N4148W	
D817	093G 6432S	1N4148W	
D814	093G 6432S	1N4148W	
D809	093G 6432S	1N4148W	
D806	093G 6432S	1N4148W	
ZD922	093G 39S 25 T	RLZ5.1B LLDS	
ZD902	093G 39S 61 T	DIODE RLZ16B ROHM	
ZD921	093G 39S 61 T	DIODE RLZ16B ROHM	
ZD903	093G 39S 61 T	DIODE RLZ16B ROHM	
CN901	006G 31500	EYELET	
NR901	006G 31502	1.5MM RIVET	
T901	006G 31502	1.5MM RIVET	

IC904	056G 158 4 T	H431BA	
IC904	056G 158 12	KIA431A-AT/P TO-92	
C938	065G 2K152 1T6921	1.5NF/2KV Y5P +-10%	
C906	065G 2K152 1T6921	1.5NF/2KV Y5P +-10%	
C908	067G215Y2207KT	CAP 105℃ 22UF M 50V KINGNICH	
FB901	071G 55 29	FERRITE BEAD	
F901	084G 55 1W	FUSE 4A 250V WICKMANN	
D901	093G 6038P52T	PS102R	
D900	093G1100 1152T	DIODE PR1007R 1A/1000V DO-41	
	715G2538 2ACE	POWER-PCB FR-1 160*124*1.6MM SS	
D902	093G 6432S	1N4148W	
R937	061G1206221	RST CHIPR 220 OHM +-5% 1/4W	
T901	S80GL19T23V	TRANSFORMER ASS'Y	
	Q15G0267101	SHIELDING	
	Q40G 22N68017B	RATING LABEL	
	Q40G000268070A	TRY ME LABEL FOR VK22	
	Q40G000268086A	SPLENDID LABEL FOR VW224S	
	Q41G780068025C	EU WARRANTY CARD NON ZBD	
	Q44GC03768010B	22 LCD CARTON	
	Q44GC055101	EPS	
	Q44GC055201	EPS	
	Q45G 88607 25	PE BAG FOR BASE	
	Q45G 88609130	EPE BAG	
	Q52G6020 29	PROTECT FILM	
	045G 76 28 RN	PE BAG FOR MANUAL	
	Q41G780068045A	QSG	
	Q45G 76 28V13 R	PE BAG	
	Q70G2201680 4A	CD MANUAL	
	040G 457834 4A GP	S/N LABEL FOR ID	
	040G 58162435A	P/N LABEL FOR MANUAL PE BAG	
	040G 582680 4A	CARTON LABEL	

15. Different Parts list

Diversity of TCR2MPNTWYUSDI compared with TCR2MPNCWYUSDI			
Location	Part No.	Description	Remark
E08901	089G402A18N CX	POWER CORD	
E08901	089G402A18N YH	POWER CORD(32-D022438)	2nd source
	Q41G780068026C	TW WARRANTY CARD NON ZBD	
	040G 582680 1A	CARTON LABEL	

Diversity of TCR2MPNBWYUSDI compared with TCR2MPNCWYUSDI			
Location	Part No.	Description	Remark
	Q41G780068025C	EU WARRANTY CARD NON ZBD	

Diversity of TCR2MPNKWYUSDI compared with TCR2MPNCWYUSDI			
Location	Part No.	Description	Remark
E08901	089G402A18N CX	POWER CORD	
E08901	089G402A18N IS	POWER CORD/ 32-D022438	2nd source
	Q40G 22N68024A	RATING LABEL	
	Q41G780068027B	US WARRANTY CARD NON ZBD	